

**State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
Northern District**

**HISTORIC SACRAMENTO RIVER
TEMPERATURE DATA,
KESWICK TO BUTTE CITY**

Memorandum Report

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INTRODUCTION

This report is a compilation of historic Sacramento River water temperature data from Keswick Reservoir to Butte City through 1989 (Tables 1a-21a). The data are organized into a series of tables listed from upstream to downstream stations. The years of record, type of instrumentation, location of data collection, and source of the data are included on each table. Most of the data were obtained from unpublished records of the Central Valley Regional Water Quality Control Board, Region 1 of the Department of Fish and Game, Northern District of the Department of Water Resources, and the U. S. Fish and Wildlife Service at the Tehama-Colusa Fish Facility. Some of the data were previously published (USFWS 1949, 1952, and 1986), but are presented here for convenience. Data that are readily available in the U. S. Geological Survey, Water Resources Data for California reports (1955-1983) (Table 22) have not been included in this report.

Currently the Northern District of the Department of Water Resources maintains 14 thermographs on the Sacramento River, with an additional thermograph at the mouth of the Colusa Basin Drain. These are located at:

1. Sacramento River below Keswick
2. Sacramento River below Clear Creek
3. Sacramento River at Balls Ferry
4. Sacramento River at Jellys Ferry
5. Sacramento River above Bend Bridge
6. Sacramento River below the Red Bluff Diversion Dam
7. Sacramento River near Sacramento Bar
8. Sacramento River at Tehama
9. Sacramento River at Woodson Bridge
10. Sacramento River at Hamilton City

11. Sacramento River at Butte City
12. Sacramento River below Colusa
13. Sacramento River above the Colusa Basin Drain
14. Colusa Basin Drain at Knights Landing
15. Sacramento River below the Colusa Basin Drain

The Department anticipates operation of these thermographs until July 1991, after which funding is questionable. Additionally, the U. S. Fish and Wildlife Service at the Tehama-Colusa Fish Facility maintains a thermograph at the Red Bluff Diversion Dam. The U. S. Bureau of Reclamation recently installed thermographs in the Sacramento River below Keswick, near Balls Ferry, above Bend Bridge, and below the Red Bluff Diversion Dam. They also installed thermographs on the Sacramento and McCloud rivers above Shasta Lake, and plan to install additional thermographs on the Pit River above Shasta Lake and the Sacramento River immediately below Shasta Dam. The Bureau data are telemetered to the California Data Exchange Center (CDEC) at the Department of Water Resources, Division of Flood Management where they can be accessed by the public and governmental agencies using a computer terminal and modem. The Packaging Company of California in Red Bluff records thermometer temperature data above and below the Red Bluff Diversion Dam three times weekly. Finally, Region 1 of the Department of Fish and Game and the U. S. Fish and Wildlife Service take summer spot measurements at Spring Creek, and the Sacramento River at Keswick, Balls Ferry, and Bend Bridge.

REFERENCES

- U. S. Geological Survey. 1955-1983. Water resources data for California.
- U. S. Fish and Wildlife Service. 1949. Water temperature records from California's Central Valley, 1939-1948. Special Scientific Report: Fisheries No. 2.
- _____. 1952. Water temperatures of California's Central Valley, 1949-51. Special Scientific Report: Fisheries No. 75.
- _____. 1986. Tehama-Colusa Fish Facilities water quality report.

INDEX TO TABLES

<u>No.</u>		<u>Page</u>
1a.	Periodic Hand Held Water Temperature Readings at Shasta Dam Powerplant, 1944-48	11
1b.	Daily Maximum and Minimum Water Temperatures below Shasta Dam, 1976	12
2a.	Daily Maximum and Minimum Water Temperatures for Sacramento River at Matherson, 1983-84	13
3a.	Daily Maximum and Minimum Water Temperatures at Spring Creek Powerhouse, 1976	15
3b.	Daily Maximum and Minimum Water Temperatures at Spring Creek Powerhouse, 1987	16
4a.	Mean Daily Water Temperatures at Keswick Powerplant, 1950-64	17
4b.	Daily Maximum and Minimum Water Temperatures below Keswick Dam, 1976-77	32
4c.	Daily Maximum and Minimum Water Temperatures below Keswick Dam, 1983-84	34
4d.	Daily Maximum and Minimum Water Temperatures for Sacramento River below Keswick Dam, 1986-89	36
4e.	Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-89	40
4f.	Periodic Afternoon and Morning Water Temperatures at Keswick Powerhouse, 1987	49
5a.	Daily Afternoon and Morning Water Temperatures at Redding, 1939	50
5b.	Daily Maximum and Minimum Water Temperatures at Redding, 1947-51	51
5c.	Monthly Maximum and Minimum Water Temperatures at Redding, 1952-57	56
5d.	Periodic Afternoon and Morning Water Temperatures at Cypress Bridge in Redding, 1987-89	57
6a.	Daily Maximum and Minimum Water Temperatures near Redding, 1976-77	60
7a.	Daily Maximum and Minimum Water Temperatures above Clear Creek, 1968-70	62

<u>No.</u>		<u>Page</u>
7b.	Daily Maximum and Minimum Water Temperatures above Clear Creek, 1983-84	65
8a.	Daily Maximum and Minimum Water Temperatures below Clear Creek, 1950-51	67
8b.	Monthly Maximum and Minimum Water Temperatures below Clear Creek, 1952-55	69
8c.	Daily Maximum and Minimum Water Temperatures below Clear Creek, 1986-89	70
8d.	Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-89	74
8e.	Periodic Afternoon and Morning Water Temperatures at Deschutes Bridge, 1987	83
9a.	Daily Maximum Water Temperatures at Balls Ferry, July - October 1941	84
9b.	Daily Maximum Water Temperatures at Balls Ferry, December 1945	85
9c.	Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51	86
9d.	Monthly Maximum and Minimum Water Temperatures at Balls Ferry, 1952-57	92
9e.	Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1976-77	93
9f.	Daily Maximum and Minimum Water Temperatures near Balls Ferry, 1983-84	95
9g.	Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1986-88	97
9h.	Daily Mean, Maximum, and Minimum Water Termperatures at Balls Ferry, 1988-89	100
10a.	Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1976	111
10b.	Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1986-88	112
10c.	Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-89	115

<u>No.</u>		<u>Page</u>
10d.	Periodic Afternoon and Morning Water Temperatures at Jellies Ferry Bridge, 1988	123
11a.	Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88	124
11b.	Daily Mean, Maximum, and Minimum Water Temperatures at Bend Bridge, 1989	130
11c.	Periodic Afternoon and Morning Water Temperatures at Bend Bridge, 1987 and 1989	134
12a.	Daily Maximum and Minimum Water Temperatures at Red Bluff, 1950-51	136
12b.	Monthly Maximum and Minimum Water Temperatures at Red Bluff, 1952-57	138
12c.	Daily Maximum and Minimum Water Temperatures at Red Bluff, 1983-84	139
13a.	Monthly Maximum and Minimum Water Temperatures below Red Bluff Dam Site, 1953-56	141
13b.	Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88	142
13c.	Periodic Temperature Measurements above and below Red Bluff Diversion Dam, 1978-87	165
13d.	Daily Maximum and Minimum Water Temperatures below Red Bluff Diversion Dam, 1979-80	175
13e.	Daily Maximum and Minimum Water Temperatures below Red Bluff Diversion Dam, 1983-84	177
13f.	Daily Maximum and Minimum Water Temperatures below Red Bluff Diversion Dam, 1986-88	179
13g.	Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-89	182
14a.	Daily Maximum and Minimum Water Temperatures near Sacramento Bar, 1986-89	198
15a.	Daily Maximum and Minimum Water Temperatures at Tehama, 1976-77	202
15b.	Daily Maximum and Minimum Water Temperatures at Tehama, 1983-84	204

<u>No.</u>		<u>Page</u>
15c.	Daily Maximum and Minimum Water Temperatures at Tehama, 1986-89	206
16a.	Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51	210
16b.	Monthly Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1952-53 and 1955-57	217
16c.	Daily Maximum and Minimum Water Temperatures near Woodson Bridge, 1968	218
16d.	Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1976	219
16e.	Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1986-89	220
16f.	Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-89	224
17a.	Daily Maximum and Minimum Water Temperatures near Snaden Island and the Glenn-Colusa Canal Pumps, 1977	235
17b.	Daily Maximum and Minimum Water Temperatures near Snaden Island and the Glenn-Colusa Canal Pumps, 1980	236
18a.	Daily Maximum and Minimum Water Temperatures at Hamilton City, 1979-80	237
18b.	Daily Maximum and Minimum Water Temperatures at Hamilton City, 1983-84	239
18c.	Daily Maximum and Minimum Water Temperatures at Hamilton City, 1986-89	241
18d.	Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989	245
19a.	Daily Maximum and Minimum Water Temperatures above the mouth of Stony Creek, 1980-81	258
20a.	Periodic Afternoon and Morning Water Temperatures at Ord Ferry, 1948	260
20b.	Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1948-51	261
20c.	Monthly Maximum and Minimum Water Temperatures at Ord Ferry, 1952-53	265

<u>No.</u>		<u>Page</u>
20d.	Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1980	266
21a.	Daily Maximum and Minimum Water Temperatures at Butte City, 1989	267
22.	Sacramento River Water Temperature Data from Keswick to Butte City Available in "USGS Water Resources Data for California" Reports	268

YEAR 1944-48

Table 1a. Periodic Hand Held Temperature Readings at Shasta Dam Powerplant, 1944-1948^{1/}

DATE	1944	1945	1946	1947	1948	DATE	1944	1945	1946	1947	1948	DATE	1944	1945	1946	1947	1948
JAN. 4		50	50	52	8	MAY 7						48	SEPT. 8	53.6			
5	50.9	51.8	51.8	52	10							48.2	10	13	64.4		52
7												48.2	13	18	64.4	53.6	
13	48		50		14							48.2	19	55.4			
18					22							48.2	30	53.6	55		
20			50	50	24							48.2	30	53.6	55		
21			48.2	48.2	29							48.2	30	53.6	55		
28	48.3					JUNE 1						48.2	48	OCT. 2	64.4		
29					50	6						48.2	5	57.2			
31		48.2	48.2	48.2	9							48.2	11	57.2			
FEB. 1		48.2	48.2	48.2	10							48.2	12				52
11	48.2				14		49.1					48.2	14		55.4		
13			48.2	48.2	23							48.2	20	62.6			
15		46.4	46.4	46.4	24							48.2	23		55.4		
16				48	24	JULY 1		48.2				48.2	26	61.7	57.2		
25	46.4		46.4	48	3							48.2	27			55	
27			48.2	48.2	8							48.2	28		55.4		
MAR. 1		46.4	46.4	46.4	9							48.2	NOV. 8	57.2	55.4		
9				48	15			48.2				48.2	21		55.4		
13	48.2	46.4	46.4	46.4	18							48.2	25		55.4		
14					22							48.2	28		55.4		
24			46.4	46	28							48	DEC. 5		53.6		
27			46.4	46.4	29							50	48				
29		46.4	46.4	46.4	AUG. 2							50	50				
30		48.2		46	4							51.8	51.8				
APR. 9				46	10							50	51.8	22	52.7	51.8	53.6
10			48.2	48.2	14							51.8	51.8	24			57
12			46.4	46.4	16							50	50	30			53.6
15	46.4				24							51.8	50				
25		48.2			26							51.8	51.8				
29	48.2				28							51.8	51.8				
30				46	30							54	53.6				

^{1/} From USFWS, 1952.

YEAR 1976

Table 1b. Daily Maximum and Minimum Water Temperatures below Shasta Dam, 1976^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									60	59	64	64	63.5	63	-	-											
2									60	59	64	64	63.5	63	-	-											
3									60	59	64	63.5	63.5	63.5	-	-											
4									60	59	63.5	63.5	63.5	63	-	-											
5									60	59	64	64	63.5	63	-	-											
6									60	59	64	64	63.5	63.5	-	-											
7									60.5	60	64	64	63.5	63.5	-	-											
8									60	60	64	64	63	-	-	-											
9									60.5	60	64	64	-	-	-	-											
10									60	60	64	64	-	*58	-	-											
11									60	-	64	64	-	-	-	-											
12									60	60	64	64	-	-	-	-											
13									60	60	64	64	-	-	-	*58											
14									60	60	64	64	-	-	-	-											
15									60	60	64	64	-	-	-	-											
16									61	60.5	64	64	-	-	-	-											
17									61	61	64	64	-	-	-	-											
18									61	61	64	64	-	-	-	-											
19									60.5	59.5	64	64	-	-	-	-											
20									60.5	59.5	64	64	-	-	-	-											
21									61	60.5	64	64	-	-	-	-											
22									61	60.5	64	64	-	-	-	-											
23									60.5	60	64	64	-	-	-	-											
24									60.5	60	64	64	-	-	-	-											
25									60.5	60.5	64	64	-	-	-	-											
26									60.5	60.5	64	64	-	-	-	-											
27									61.5	61.5	64	63.5	-	-	-	-											
28									62	62	63.5	63.5	-	-	-	*56											
29									62	62	63.5	63.5	-	-	-	-											
30									64	63	63.5	63.5	-	-	-	*56											
31									64	64	-	-	-	-	-	-											
	MAX															64	64										
	MIN															59	63.5										

*Hand thermometer readings.

-No Data.

1/ Ryan thermograph located approximately 1/2 mile below Shasta Dam on west bank.

2/ Unpublished data collected by DFG, Region 1.

YEAR 1983

Table 2a. Daily Maximum and Minimum Water Temperatures for Sacramento River at Matheson, 1983-84^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									48	48	49	49	52	51	51	51	52	52	54	54	54	54	54	54	
2									48	48	49	48	52	51	52	51	62	52	54	54	54	54	54	54	
3									48	48	49	49	52	51	52	52	54	51	54	54	54	54	54	54	
4									48	48	49	48	52	51	52	51	53	53	54	54	54	54	54	54	
5									48	47	49	49	52	51	52	52	63	53	54	52	54	54	54	54	
6									48	48	50	49	52	51	52	52	53	53	54	54	54	54	53	53	
7									48	48	50	49	52	51	52	52	61	53	55	54	53	53	53	53	
8									48	48	50	49	52	51	53	52	54	53	55	52	53	53	53	53	
9									48	48	48	50	49	52	51	53	52	53	53	55	50	53	53	53	
10									48	48	48	48	50	49	52	51	52	52	54	53	54	54	53	53	
11									48	47	48	48	50	49	52	51	52	52	54	53	56	56	53	53	
12									48	47	48	48	50	49	52	51	52	52	54	53	56	55	53	53	
13									48	48	48	48	50	49	52	51	52	52	54	53	55	55	53	53	
14									48	47	48	48	50	49	52	51	52	52	54	53	55	55	53	53	
15									48	47	48	48	51	49	52	51	52	52	54	53	55	55	53	52	
16									48	48	48	48	51	51	51	50	52	52	54	53	55	55	52	52	
17									49	48	49	48	51	51	52	51	52	52	54	53	54	54	52	52	
18									49	48	48	48	51	51	51	51	52	52	54	54	55	54	52	52	
19									48	47	48	48	51	51	51	51	52	52	54	54	55	54	52	52	
20									48	47	50	48	51	51	51	51	52	52	54	54	54	54	52	52	
21									48	47	49	49	51	50	51	51	52	52	54	54	56	54	52	52	
22									48	47	49	48	51	51	51	51	52	52	54	54	55	55	52	52	
23									48	47	49	49	51	51	51	51	52	52	55	54	55	55	51	51	
24									48	47	49	49	51	51	51	51	53	52	55	52	55	55	51	51	
25									48	48	49	48	51	51	51	51	63	52	55	51	55	55	51	51	
26									48	48	49	49	51	51	51	51	53	52	55	54	55	55	51	51	
27									48	48	49	49	51	51	51	51	56	52	55	50	54	54	51	51	
28									48	48	49	49	51	51	51	51	53	52	54	52	54	54	51	51	
29									48	47	49	49	51	51	51	51	53	52	54	54	54	54	51	50	
30									49	47	49	49	51	50	51	51	52	52	54	54	54	54	50	50	
31									48	48			51	50	51	51			54	54			50	50	
MAX													50		51		52		63		63		56		54
MIN													47		48		50		51		50		50		50

1/ Palmer thermograph located on east banks.

2/ Unpublished data collected by DWR, Northern District

YEAR 1984

Table 2a. Daily Maximum and Minimum Water Temperatures for Sacramento River at Matheson, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	50	50	48	45	46	46	47	47	48	48	49	49												
2	50	50	47	44	46	46	48	47	48	48	49	49												
3	50	50	48	47	46	46	48	48	48	48	49	49												
4	50	50	47	47	46	46	48	48	48	48	49	49												
5	-	-	47	47	46	46	48	48	48	48	49	49												
6	-	-	47	47	46	46	48	48	48	48	49	49												
7	50	50	47	47	46	46	48	48	48	48	49	49												
8	50	50	47	47	46	46	48	48	48	48	49	49												
9	50	49	47	47	46	46	48	48	48	48	49	49												
10	50	49	47	47	46	46	48	48	49	48	49	49												
11	50	48	47	47	47	46	48	48	48	48	49	49												
12	49	49	47	47	47	47	48	48	48	48	49	49												
13	49	49	47	47	47	47	48	48	48	48	49	49												
14	49	49	47	47	47	47	48	48	49	48	49	49												
15	-	-	47	47	47	47	48	48	49	48	50	49												
16	49	48	47	47	47	47	48	48	49	48	50	49												
17	48	48	47	47	47	47	48	48	49	48	50	49												
18	48	48	47	47	47	47	48	48	49	48	50	49												
19	48	47	47	47	47	47	48	48	49	48	50	49												
20	47	45	46	46	47	47	49	48	49	48	50	49												
21	48	43	46	46	47	47	48	48	49	48	50	49												
22	47	47	46	46	47	47	48	48	49	48														
23	47	47	47	46	47	47	48	48	49	48														
24	-	-	46	46	48	47	48	48	49	48														
25	-	-	46	46	47	47	48	48	49	48														
26	48	47	46	46	47	47	48	48	49	48														
27	48	48	46	46	47	47	48	48	49	48														
28	-	-	46	46	48	47	48	48	49	48														
29	48	48	46	46	47	47	48	48	49	49														
30	-	-			47	47	48	48	49	49														
31	-	-			47	47			49	49														
MAX			48		48		49		49															
MIN			44		46		47		48															

-No Data.

YEAR 1976

Table 3a. Daily Maximum and Minimum Water Temperatures at Spring Creek Powerhouse^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
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23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									
MAX																									
MIN																									

-No Data.

1/ Ryan thermograph location unknown.

2/ Unpublished data collected by DFG, Region 1

YEAR 1987

Table 3b. Daily Maximum and Minimum Water Temperatures at Spring Creek Powerhouse, 1987^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1															53.5	52.5	57	55.5	58	57	54	53	52.5	50.5			
2															54	53	57	55.5	58	57	54	53	52.5	50.5			
3															55	53	57	55	59	57.5	54	53	52.5	50.5			
4															54	53.5	-	55	59	57	54	52	52.5	50			
5															54.5	53.5	-	-	58.5	57.5	54	52	52.5	50			
6															54.5	53.5	-	-	58.5	57	54	52	50.5	50			
7															55	54	-	-	58.5	57	53	52	50.5	50			
8															55	54	-	-	58	57	53	52	50.5	50			
9															56	52.5	-	-	58	56.5	53	52	50.5	50			
10															56	55.5	-	-	57	56.5	53	52	50.5	50			
11															56	55.5	-	-	57	56	52	51	50.5	49.5			
12															56	55.5	-	-	57	56	52	51	50	49.5			
13															56.5	55	-	-	57	56	52	51	51.5	49			
14															56.5	55.5	-	-	57	55	52	51	51	49.5			
15															56.5	56	-	-	56.5	55	52	51	50.5	49.5			
16															57	56	-	-	56	55	52	51	49.5	49			
17															58	56	-	-	55.5	55	52	51	49.5	49			
18															58	56	-	-	55.5	54	52	51	50	49.5			
19															57.5	55	-	-	55	53.5	52	51	51	49			
20															58	55.5	-	-	55	53	52	51	51	49			
21															58	56	-	-	54	53	51.5	51	51	49			
22															58	56	-	-	54.5	53	51	51	51	49			
23															57	55	-	-	55	53	52	51.5	51	49			
24															57	55	-	-	54.5	53	52	51	52	49			
25															56	55.5	-	-	55	53	52	51	51	49			
26															52	50.5	56	55.5	-	-	54	53	52.5	51	51	49	
27															52	51	56	55.5	57.5	57	54.5	53	52	51	51	48.5	
28															51.5	51	56	55.5	57.5	56	54	52	51	50	48		
29															54	51	57.5	55.5	59	56.5	54	53	51	51	50	48.5	
30															54	52	57	55.5	58	56	55	53	51	51	50	48	
31																	57	55.5	58	56			52	50.5			
MAX																		58			59		54		52.5		
MIN.																		52.5			52		50.5		48		
- No Data.																											

1/ Palmer thermograph located at outfall from powerhouse

2/ Unpublished data collected by DFG, Region 1.

YEAR 1950

Table 4a. Mean Daily Water Temperature at Keswick Powerplant, 1950-64^{1/} ^{2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1		-	45	45	45	47	49	50	50	50	50	50
2		52	45	45	45	47	49	50	50	50	50	50
3		52	45	45	45	47	49	50	50	50	50	50
4		52	46	45	45	47	49	50	50	50	50	50
5		52	46	45	45	47	49	50	50	50	50	50
6		52	45	45	45	47	49	50	50	50	50	50
7		52	45	45	45	47	50	50	50	50	50	50
8		52	45	45	45	47	48	50	50	-	50	50
9		52	45	45	45	47	50	50	50	50	50	50
10		52	45	45	48	47	50	50	50	50	50	50
11		53	45	45	48	47	50	50	50	50	50	50
12		53	45	45	48	48	50	50	50	50	50	50
13		53	45	45	48	48	50	50	50	50	50	50
14		53	45	45	49	48	50	50	50	50	50	50
15		53	45	45	49	49	50	50	50	50	50	50
16		51	45	45	49	49	50	50	50	50	50	50
17		50	45	45	49	48	50	50	50	50	50	50
18		50	45	45	47	46	50	50	50	50	50	50
19		50	45	45	47	49	50	50	50	50	50	50
20	50	50	45	45	47	49	50	50	50	50	50	50
21	50	50	45	45	47	49	50	50	50	50	50	49
22	50	50	45	45	47	49	50	50	50	50	50	50
23	50	52	45	45	47	49	50	50	50	-	50	49
24	46	57	45	45	47	49	50	50	50	50	50	49
25	46	57	45	45	47	49	50	50	50	50	50	49
26	46	57	45	45	47	49	50	50	50	50	50	49
27	-	64	45	45	47	49	50	50	50	50	50	49
28	-	64	45	46	47	49	50	50	50	50	50	49
29	-		45	46	47	49	50	50	50	50	50	49
30	46		45	45	47	49	50	50	50	50	50	49
31	46		45		47		50	50	50	50		49

-No Data.

1/ Instrument collector and location unknown.

2/ Unpublished data on file at DWR, Northern District

YEAR 1951

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	49	49	49	49	49	50	50	50	50	50	54	54
2	49	49	49	49	49	50	50	50	50	50	54	54
3	49	49	49	49	49	50	50	50	50	50	54	54
4	49	49	49	48	49	50	50	50	50	50	54	54
5	49	49	49	48	49	50	50	50	50	50	54	54
6	49	48	49	48	49	50	50	50	50	50	54	54
7	49	49	49	48	49	50	50	50	50	50	54	54
8	49	49	49	48	49	50	50	50	50	50	54	54
9	49	49	49	48	49	50	50	50	50	50	54	54
10	49	49	49	48	49	50	50	50	50	50	54	54
11	49	49	49	48	49	50	-	50	50	50	54	54
12	49	49	49	49	49	50	50	50	50	50	54	54
13	49	49	49	49	49	50	50	50	50	50	54	54
14	49	49	49	49	49	50	50	50	50	50	54	54
15	49	49	49	49	49	50	50	50	50	54	54	54
16	49	49	49	49	49	50	50	50	50	54	54	52
17	49	49	49	49	49	50	50	50	50	54	54	52
18	49	49	49	49	49	50	50	50	50	54	54	50
19	49	49	49	49	49	50	50	50	50	54	54	50
20	49	49	49	49	49	50	50	50	50	54	54	48
21	49	49	49	49	50	50	50	50	50	54	54	48
22	49	49	49	-	50	50	50	50	50	54	54	48
23	49	49	49	49	50	50	50	50	50	54	54	48
24	49	49	49	49	50	50	50	50	50	54	54	48
25	49	49	49	49	50	50	50	50	50	54	54	48
26	49	49	49	49	50	50	50	50	50	54	54	48
27	49	49	49	49	50	50	50	50	50	54	54	48
28	49	49	49	49	50	50	50	50	50	54	54	48
29	49	-	49	49	52	50	50	50	50	54	54	48
30	49	-	49	49	50	50	50	50	50	54	54	48
31	49	-	49	-	50	-	50	50	50	54	-	48

-No Data.

YEAR 1952

Table 4a. Mean Daily Water Temperature at Keswick Powerplant, 1950-64 (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	48	48	48	45	46	49	49	48	50	54	54	54
2	48	48	45	45	46	49	48	50	50	54	54	54
3	48	48	45	45	46	49	48	50	50	54	54	54
4	48	48	45	45	46	49	48	50	50	54	54	54
5	48	48	45	45	46	49	48	50	50	54	54	54
6	48	48	45	45	46	49	48	50	50	54	54	54
7	48	48	45	45	46	49	48	50	50	54	54	52
8	48	48	45	45	46	49	48	50	50	54	54	52
9	48	48	45	45	46	49	48	50	50	54	54	52
10	48	47	45	45	46	49	48	50	50	54	54	52
11	48	47	45	45	46	49	48	50	50	54	54	52
12	48	47	45	46	46	49	48	50	50	54	54	52
13	48	47	45	46	46	49	48	50	50	54	54	52
14	48	47	45	46	46	49	48	50	50	54	54	52
15	48	48	45	46	46	49	48	50	50	54	54	50
16	48	48	45	46	46	49	48	50	50	54	54	50
17	48	48	45	46	46	49	48	50	50	54	54	50
18	48	48	45	46	46	49	48	50	50	54	54	50
19	48	48	45	46	46	49	48	50	50	54	54	50
20	48	48	43	46	46	49	48	50	50	54	54	50
21	48	48	45	46	46	49	48	50	50	54	54	50
22	48	48	45	46	46	49	48	50	50	54	54	50
23	48	48	45	46	46	49	48	50	53	54	54	50
24	48	48	45	46	46	49	48	50	54	54	54	50
25	48	48	45	46	46	49	48	50	54	54	54	50
26	48	48	45	46	48	49	48	50	54	54	54	50
27	48	48	45	46	49	49	48	50	54	54	54	50
28	48	48	45	46	49	49	48	50	54	54	54	50
29	48	48	45	46	49	49	48	50	54	54	54	50
30	48		45	46	49	49	48	50	54	54	54	50
31	48		45	46	49		50	50		54		50

YEAR 1953

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	50	50	48	48	48	50	48	48	50	52	52	52
2	49	50	48	48	48	52	48	48	50	52	52	52
3	49	50	48	48	48	50	48	48	50	52	52	52
4	49	50	48	48	48	48	48	48	50	52	52	52
5	49	50	48	48	48	48	48	48	50	52	55	52
6	49	50	48	48	48	48	48	48	50	52	55	52
7	49	50	48	48	48	48	48	48	50	52	46	52
8	49	48	48	48	48	48	48	48	50	52	52	52
9	49	47	48	48	48	48	48	48	50	52	52	52
10	49	47	48	48	48	48	48	48	50	52	52	52
11	49	47	48	48	48	48	48	48	50	52	52	52
12	49	47	48	48	48	48	48	50	50	52	52	52
13	49	47	48	48	48	48	48	50	50	52	52	52
14	49	47	48	48	48	48	48	50	50	52	52	52
15	49	48	48	48	48	48	48	50	50	52	52	52
16	49	48	48	48	48	48	48	50	50	52	52	52
17	49	48	48	48	48	48	48	50	50	52	52	52
18	49	48	48	48	48	48	48	50	50	52	52	52
19	50	48	48	48	48	48	48	50	50	52	52	52
20	50	48	48	48	48	48	48	50	50	52	52	52
21	50	48	48	48	48	48	48	50	52	52	52	52
22	50	48	48	48	48	48	48	50	52	52	52	52
23	50	48	48	48	48	48	48	50	52	52	52	52
24	50	48	48	48	48	48	48	50	52	52	52	52
25	50	48	48	48	48	48	48	50	52	52	52	52
26	50	48	48	48	48	48	48	50	52	52	52	52
27	50	48	48	48	48	48	48	50	52	52	52	52
28	50	48	48	48	48	48	48	50	52	52	52	52
29	50	48	48	48	48	48	48	50	52	52	52	52
30	50	48	48	48	48	48	48	50	52	52	52	52
31	50	48	48	48	48	48	48	50	52	52	52	52

YEAR 1954

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	52	52	52	52	52	52	52	52	52	52	52	52
2	52	52	52	52	52	52	52	52	52	52	52	52
3	52	52	52	52	52	52	52	52	52	52	52	52
4	52	52	52	52	52	52	52	-	52	52	52	52
5	52	52	52	52	52	53	52	52	52	52	52	52
6	52	52	52	52	52	52	52	52	52	52	52	52
7	52	52	52	52	52	52	52	52	52	52	52	52
8	52	52	52	52	52	52	52	52	52	52	52	52
9	52	52	50	52	52	52	52	52	52	52	52	52
10	52	52	52	52	52	52	52	52	52	52	52	52
11	52	52	52	52	52	52	52	52	52	52	52	52
12	52	52	52	52	52	52	52	52	52	52	52	52
13	52	52	52	52	52	52	52	52	52	52	52	52
14	52	52	52	52	52	52	52	52	52	52	52	52
15	52	52	52	52	52	52	52	52	52	52	52	52
16	52	52	52	52	52	52	52	52	52	52	52	52
17	52	52	52	52	52	52	52	52	52	52	52	52
18	52	52	52	52	52	52	52	52	52	52	52	52
19	52	52	52	52	52	52	52	52	52	52	52	52
20	52	52	52	52	52	52	52	52	52	52	52	52
21	52	52	52	52	52	52	52	52	52	52	52	52
22	52	52	52	52	52	52	52	52	52	52	52	52
23	52	52	52	52	52	52	52	52	52	52	52	52
24	52	52	52	52	52	52	52	52	52	52	52	52
25	52	52	52	52	52	52	52	52	52	52	52	52
26	52	52	52	52	52	52	52	52	52	52	52	52
27	52	52	52	52	52	52	52	52	52	52	52	52
28	52	52	52	52	52	52	52	52	52	52	52	52
29	52		52	52	52	52	52	52	52	52	52	52
30	52		52	52	52	52	52	52	52	52	52	52
31	52		52		52			52	52	52	52	52

-No Data.

YEAR 1955

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	52	52	48	47	47	47	50	50	52	52	54	54
2	52	52	48	47	47	47	50	50	52	52	54	54
3	52	52	48	47	47	47	50	50	52	52	54	54
4	52	52	48	47	47	47	50	50	52	52	55	54
5	52	52	48	47	47	50	50	50	52	52	55	52
6	52	52	48	47	47	50	50	50	52	52	55	52
7	52	52	48	47	47	50	50	50	52	52	55	52
8	52	52	48	47	47	50	50	50	52	52	55	52
9	52	52	48	47	47	50	50	50	52	50	55	52
10	52	52	48	47	47	50	50	50	52	50	52	52
11	52	52	48	47	47	50	50	50	52	50	52	52
12	52	52	48	47	47	50	50	50	52	50	52	52
13	52	52	52	47	47	50	50	50	52	50	52	52
14	52	52	52	47	47	50	50	50	52	50	52	52
15	52	52	52	47	47	50	50	50	52	50	52	52
16	52	52	52	47	47	50	50	50	52	50	52	50
17	52	52	47	47	47	50	50	50	52	50	52	50
18	52	52	47	47	47	50	50	50	52	50	52	50
19	50	52	47	47	47	50	50	50	52	52	52	50
20	52	52	47	47	47	50	50	50	52	52	52	54
21	52	50	47	47	47	50	50	50	52	52	52	54
22	52	48	47	47	48	50	50	52	52	52	52	54
23	52	48	47	47	48	50	50	52	52	52	52	54
24	52	48	47	47	48	50	50	52	52	52	52	54
25	50	48	47	47	48	50	50	52	52	52	52	54
26	50	48	47	47	47	50	50	52	52	52	52	52
27	50	48	47	47	47	50	50	52	52	52	52	52
28	50	48	47	47	47	50	50	52	52	52	52	52
29	50	47	47	47	47	50	50	52	52	52	52	52
30	52	47	47	47	47	50	50	52	52	52	54	50
31	52	47	47	47	47	50	50	52	52	54	50	50

YEAR 1956

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	50	48	46	45	46	48	48	48	48	50	52	52
2	50	48	46	45	46	48	48	48	48	50	52	52
3	50	47	46	45	46	48	48	48	48	50	52	52
4	50	47	46	45	46	48	48	48	48	50	52	52
5	50	47	46	45	46	48	48	48	48	50	52	52
6	50	47	46	46	46	48	48	48	48	50	52	52
7	50	47	46	46	46	48	48	48	48	50	52	52
8	50	46	46	46	46	48	48	48	48	50	52	52
9	50	46	46	46	46	48	48	48	48	50	52	52
10	50	46	46	46	46	48	48	48	48	50	52	52
11	50	46	46	46	46	48	48	48	-	50	52	52
12	50	46	46	46	46	48	48	48	-	50	52	52
13	50	46	46	46	46	48	48	48	48	50	52	52
14	50	46	46	45	46	48	48	48	48	50	52	52
15	50	46	45	45	48	48	48	48	48	50	52	52
16	50	46	45	45	48	48	48	48	48	50	52	52
17	50	46	45	45	48	48	48	48	48	50	52	52
18	50	46	45	45	48	48	48	48	48	50	52	52
19	50	46	45	45	48	48	48	48	48	52	52	52
20	50	46	45	45	48	48	48	48	50	52	52	52
21	50	46	45	45	48	48	48	48	50	52	52	52
22	50	46	45	45	48	48	48	48	50	52	52	52
23	50	46	45	45	48	48	48	48	50	52	52	52
24	48	46	45	45	48	48	48	48	50	52	52	52
25	48	46	45	45	48	48	48	48	50	52	52	52
26	48	46	45	45	48	48	48	48	50	52	52	52
27	48	46	45	46	48	48	48	48	50	52	52	52
28	48	46	45	46	48	48	48	48	50	52	52	52
29	48	46	45	45	48	48	48	48	50	52	52	52
30	48		45	46	48	48	48	48	50	52	52	52
31	48		45		48		48	48	48		52	52

-No Data.

YEAR 1957

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	52	48	48	48	50	50	50	50	50	51	51	54
2	52	48	48	48	50	50	50	50	51	51	51	54
3	50	48	48	48	50	50	50	50	51	51	51	54
4	50	48	48	48	50	50	50	50	51	51	51	54
5	50	48	48	50	50	50	50	50	51	51	51	54
6	50	48	48	50	50	50	50	50	51	51	51	54
7	50	48	48	50	50	50	50	50	51	51	51	54
8	50	48	48	50	50	50	50	50	51	51	51	54
9	50	48	48	50	50	50	50	50	51	51	51	54
10	50	48	48	50	50	50	50	50	51	51	51	54
11	50	48	48	50	50	50	50	50	51	51	51	54
12	50	48	48	50	50	50	50	50	51	51	51	54
13	50	48	48	50	50	50	50	50	51	51	51	54
14	50	48	48	50	50	50	50	50	51	51	51	54
15	50	48	48	50	50	50	50	50	51	51	51	54
16	50	48	48	50	50	50	50	50	51	51	51	54
17	50	48	48	50	50	50	50	50	51	51	51	54
18	50	48	48	50	50	50	50	50	51	51	51	54
19	50	48	48	50	50	50	50	50	51	51	51	54
20	50	48	48	50	50	50	50	50	51	51	51	54
21	50	48	48	50	50	50	50	50	51	51	51	54
22	50	48	48	50	50	50	50	50	51	51	51	54
23	50	48	48	50	50	50	50	50	51	51	51	54
24	50	48	48	50	50	50	50	50	51	51	51	54
25	50	48	48	50	50	50	50	50	51	51	51	54
26	50	48	48	50	50	50	50	50	51	51	51	54
27	50	48	48	50	50	50	50	50	51	51	51	52
28	50	48	48	50	50	50	50	50	51	51	51	52
29	48		48	50	50	50	50	50	51	51	54	52
30	48		48	50	50	50	50	50	51	51	54	52
31	48		48		50		50	50	51		51	52

YEAR 1958

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP	OCT.	NOV.	DEC.
1	52	49	48	48	48	48	50	50	50	50	51	54
2	52	49	48	48	48	48	50	50	50	50	52	54
3	52	48	48	48	48	48	50	50	50	50	52	54
4	52	48	48	48	48	48	50	50	50	50	53	54
5	52	48	48	48	48	48	50	50	50	50	53	54
6	52	48	48	48	48	48	50	50	50	50	50	53
7	52	48	48	48	48	48	50	50	50	50	50	53
8	52	48	48	48	48	48	50	50	50	50	50	53
9	52	48	48	48	48	48	50	50	50	50	54	54
10	51	48	48	48	48	48	50	50	50	50	54	54
11	51	48	48	48	48	48	50	50	50	50	54	54
12	51	48	48	48	48	48	50	50	50	50	54	54
13	49	48	48	48	48	48	50	50	50	50	54	54
14	49	48	48	48	48	49	50	50	50	50	54	54
15	49	48	48	48	48	49	50	50	50	53	54	54
16	49	48	48	48	48	49	50	50	50	53	54	53
17	49	48	48	48	48	49	50	50	50	50	54	54
18	49	48	48	48	48	49	50	50	50	50	54	53
19	49	48	48	48	48	50	50	50	50	50	54	53
20	49	48	48	48	48	50	50	50	50	50	54	53
21	49	48	48	48	48	50	50	50	50	52	54	53
22	49	48	48	48	48	50	50	50	50	52	54	53
23	49	48	48	48	48	50	50	50	50	52	54	53
24	48	48	48	48	48	50	50	50	50	50	54	53
25	48	48	48	48	48	50	50	50	50	50	54	53
26	48	48	48	48	48	52	50	50	50	50	54	53
27	49	48	48	48	48	50	50	50	50	50	54	53
28	49	48	48	48	48	50	50	50	50	50	54	53
29	49	48	48	48	48	50	50	50	50	50	54	53
30	49	48	48	48	48	50	50	50	50	50	54	53
31	49	48	48	48	48	50	50	50	50	50	54	53

YEAR 1959

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued).

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	53	50	48	48	48	48	50	52	53	55	58	55
2	52	50	48	48	48	48	50	52	54	55	58	55
3	52	50	48	48	48	48	50	52	54	55	58	55
4	52	50	48	48	48	48	50	52	54	55	58	55
5	50	50	48	48	48	49	50	52	54	55	58	55
6	50	50	48	48	48	49	50	52	54	55	58	55
7	50	49	48	48	48	49	50	52	54	55	58	55
8	50	50	48	48	48	49	50	52	54	55	58	55
9	50	49	48	48	48	49	50	52	54	57	58	55
10	51	49	48	48	48	49	50	52	54	57	58	55
11	51	49	48	48	48	49	50	52	54	57	58	55
12	51	48	48	48	48	49	50	52	54	57	58	55
13	52	48	48	48	48	49	50	52	54	57	58	55
14	52	48	48	48	48	49	50	52	54	57	58	53
15	52	48	48	48	48	49	50	52	54	57	58	53
16	52	48	48	48	48	49	50	52	54	57	58	53
17	50	48	48	48	48	49	50	52	54	57	58	53
18	50	48	48	48	48	49	50	52	54	58	58	53
19	50	48	48	48	48	49	50	52	55	58	57	53
20	50	48	48	48	48	49	50	52	55	58	57	53
21	50	48	48	48	48	49	50	52	55	58	56	53
22	48	48	48	48	48	50	50	52	55	58	56	53
23	48	48	48	48	48	50	50	52	55	58	56	52
24	48	48	48	48	48	50	50	52	55	58	56	52
25	48	48	48	48	48	50	50	52	55	58	56	52
26	48	48	48	48	48	50	50	52	55	58	56	52
27	48	48	48	48	48	50	50	52	55	58	56	52
28	50	48	48	48	48	50	51	52	55	58	56	52
29	50	48	48	48	48	50	51	52	55	58	56	52
30	50	48	48	48	48	50	52	52	55	58	56	52
31	50	48	48	48	48	52	52	53	58	58	56	52

YEAR 1960

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	52	48	48	48	48	48	49	50	52	53	54	54
2	52	48	48	48	48	48	49	50	52	53	54	54
3	52	48	48	48	48	48	49	51	52	53	54	54
4	52	48	48	48	48	48	49	51	52	53	54	54
5	50	48	48	48	48	48	49	51	52	53	54	54
6	50	48	48	48	48	48	49	51	52	53	54	54
7	49	48	48	48	48	48	49	51	52	53	54	54
8	49	48	48	48	48	48	49	51	52	53	54	54
9	49	48	48	48	48	48	49	51	52	53	54	54
10	49	48	48	48	48	48	49	51	53	54	54	54
11	49	48	48	48	48	48	49	51	53	54	54	54
12	49	48	48	48	48	48	49	51	53	54	54	54
13	49	48	48	48	48	48	49	51	53	54	54	54
14	49	48	47	48	48	48	49	51	53	54	54	54
15	49	48	47	48	48	48	49	51	53	54	54	54
16	49	48	47	48	48	48	49	51	53	54	54	54
17	49	48	48	48	48	48	49	51	53	54	54	54
18	49	48	48	48	48	48	49	51	53	54	55	54
19	49	48	48	48	48	48	50	51	53	54	55	54
20	49	48	48	48	48	48	50	51	53	54	55	52
21	49	48	48	48	48	48	50	51	53	54	54	52
22	49	48	48	48	48	48	50	51	53	54	54	52
23	49	48	48	48	48	48	50	51	53	54	54	50
24	49	48	48	48	48	48	50	51	53	54	54	50
25	49	48	48	48	48	48	50	51	53	54	54	50
26	49	48	48	48	48	48	50	51	53	54	54	50
27	49	48	48	48	48	48	50	51	53	54	54	50
28	49	48	48	48	48	48	50	51	53	54	54	50
29	49	48	48	48	48	49	50	52	53	54	54	50
30	49	48	48	48	48	49	50	52	53	54	54	50
31	49	48	48	48	48	49	50	52	53	54	54	50

YEAR 1961

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	50	48	48	50	50	50	50	52	54	55	57	54
2	50	48	48	50	50	50	50	52	54	55	57	54
3	50	48	48	50	50	50	50	52	54	55	57	54
4	50	48	48	50	50	50	50	52	54	55	57	54
5	50	48	48	50	50	50	50	52	54	55	57	54
6	50	48	48	50	50	50	50	52	54	56	57	54
7	49	48	48	50	50	50	50	52	54	56	57	54
8	49	48	48	50	50	50	50	52	54	56	57	54
9	49	48	48	50	50	50	52	52	54	56	57	54
10	49	48	48	50	50	50	52	52	54	56	57	54
11	49	48	48	50	50	50	52	52	54	56	57	50
12	49	48	48	50	50	50	52	52	54	56	57	50
13	49	48	48	50	50	50	52	52	54	57	57	50
14	48	48	48	50	50	50	52	52	54	57	57	50
15	48	48	48	50	50	51	52	52	54	57	57	50
16	48	48	48	50	50	52	52	52	55	57	57	50
17	48	48	48	50	50	52	52	52	55	57	55	50
18	48	48	48	50	50	52	52	52	55	57	55	50
19	48	48	48	50	50	52	50	52	55	57	55	50
20	48	48	48	50	50	52	50	52	55	57	55	50
21	48	48	48	50	50	52	52	52	55	57	55	50
22	48	48	48	50	50	52	52	52	55	57	55	50
23	48	48	48	50	50	52	52	52	55	57	55	50
24	48	48	48	50	50	52	52	52	55	57	54	50
25	48	48	48	50	50	52	52	52	55	57	53	50
26	48	48	48	50	50	52	52	54	55	57	52	50
27	48	48	48	50	50	52	52	54	55	57	54	50
28	48	48	48	50	50	52	52	54	55	57	54	50
29	48	48	48	48	50	50	52	54	55	57	54	50
30	48	48	48	48	50	50	52	54	55	57	54	50
31	48	48	48	50	50		52	54		57		

YEAR 1962

Tables 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	50	46	46	46	46	47	48	48	48	51	52	52
2	50	46	48	46	46	47	48	48	48	51	52	52
3	50	46	48	46	46	47	48	48	48	51	52	52
4	50	46	48	46	46	47	48	48	48	51	52	52
5	50	46	48	46	46	47	48	48	48	51	52	52
6	48	46	48	46	46	47	48	48	50	51	52	52
7	48	46	48	46	46	47	48	48	50	51	50	52
8	48	46	48	46	46	47	48	48	50	51	50	52
9	48	47	46	46	46	47	48	48	50	-	50	52
10	48	47	46	46	46	48	48	48	50	51	50	52
11	48	46	46	46	46	48	48	48	50	51	50	52
12	48	47	46	46	46	48	48	48	50	51	50	52
13	48	48	46	46	46	48	48	48	50	51	50	52
14	48	48	46	46	46	48	48	48	50	53	50	52
15	48	48	46	46	46	48	48	48	50	53	50	52
16	48	48	46	46	46	48	48	48	50	52	50	52
17	48	48	46	46	46	48	48	48	50	52	50	52
18	48	48	46	46	46	48	48	48	50	52	51	52
19	48	48	46	46	46	48	48	48	50	52	51	52
20	48	48	46	46	46	48	48	48	50	52	-	52
21	48	48	46	46	46	48	48	48	50	52	51	52
22	45	48	46	46	46	48	48	48	50	52	51	52
23	45	48	46	46	46	48	48	48	50	52	51	52
24	45	48	46	46	46	48	48	48	50	52	51	52
25	46	48	46	46	46	48	48	48	50	54	52	52
26	46	48	46	46	46	48	48	48	50	54	52	52
27	46	48	46	46	46	48	48	48	51	54	52	52
28	46	46	46	46	46	48	48	48	51	54	52	52
29	46	46	46	46	46	48	48	48	51	52	52	52
30	46	46	46	46	46	48	48	48	51	52	52	52
31	46	46	46	46	46	48	48	48	52			

-No Data.

YEAR 1963

Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	52	49	46	46	49	51	52	50	50	52	52	52
2	52	49	46	48	49	51	52	50	50	52	52	52
3	52	49	46	48	49	51	52	50	50	52	52	52
4	50	49	46	48	49	51	52	50	50	52	52	52
5	50	49	46	48	49	51	52	50	50	52	52	52
6	50	49	46	48	49	51	52	50	50	52	52	52
7	50	46	46	48	49	51	52	50	50	52	52	52
8	50	46	46	49	49	51	51	50	50	52	52	52
9	50	46	47	49	49	51	51	50	50	52	52	52
10	50	46	50	49	49	51	51	50	51	53	52	52
11	50	46	50	49	49	51	51	50	51	52	52	52
12	50	46	50	49	49	51	51	50	51	52	52	52
13	50	46	50	49	49	51	51	50	51	52	52	52
14	50	47	50	49	49	51	51	50	51	52	52	52
15	50	47	50	49	49	51	51	50	51	52	52	52
16	50	47	50	49	49	51	51	50	51	52	52	52
17	50	47	50	49	49	51	51	50	51	52	52	52
18	50	47	50	49	49	51	51	50	51	52	52	50
19	50	47	50	49	49	51	51	50	51	52	52	50
20	50	46	49	49	49	51	51	50	51	52	52	50
21	50	46	49	49	49	51	51	50	51	52	52	50
22	50	46	49	49	49	52	51	50	51	52	52	51
23	50	46	48	49	49	52	51	50	51	52	52	50
24	50	46	48	49	49	52	51	50	51	52	52	50
25	50	46	48	49	49	52	51	50	52	52	52	50
26	50	46	48	49	50	52	51	50	52	52	52	50
27	49	46	48	49	50	52	51	50	52	52	52	50
28	48	46	48	49	51	52	51	50	52	52	52	50
29	49	48	48	49	51	52	51	50	52	52	52	50
30	49	48	48	49	51	52	50	50	52	52	52	50
31	49	48	48	51			50	50		52		50

YEAR 1964**Table 4a. Mean Daily Water Temperature at Keswick Powerplant 1950-64, (Continued)**

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
1	50	50										
2	50	50										
3	50	50										
4	50	50										
5	50	50										
6	50	50										
7	50											
8	50											
9	50											
10	50											
11	50											
12	50											
13	50											
14	50											
15	50											
16	50											
17	50											
18	50											
19	50											
20	50											
21	50											
22	50											
23	50											
24	50											
25	50											
26	50											
27	50											
28	50											
29	50											
30	50											
31	50											

YEAR 1976

Table 4b. Daily Maximum and Minimum Water Temperatures below Keswick Dam 1976-77^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1								58	57	63.7	62	58.5
2								57	57	57	54	53
3								58.5	57	63.8	62.2	57
4								57	57	63.8	62.2	58
5								59	57.5	63.8	62.2	58
6								59	58	63.9	62.5	57
7								59	58	63.9	62	58
8								59.5	57.5	63.9	62	56
9								60	58.5	63.5	61.9	56
10								60.5	58.5	63.5	61.5	56
11								61	59.5	62	61.5	55
12								61.5	60	61.8	60.5	56
13								60.5	60.5	61.5	60.5	56.5
14								-	-	62	61	54
15								-	-	62	60	54
16								-	-	62	60	52.5
17								-	-	60	60	-
18								-	-	60	61	60
19								-	-	60	61	60
20								-	-	61	60	59.5
21								-	-	61.5	60.5	60.5
22								-	-	62	61	60.5
23								-	-	61	60.5	-
24								-	-	62	60.5	60
25								-	-	62	61	-
26								-	-	62.5	61.5	-
27								-	-	62	61.5	-
28								-	-	62.5	61.5	-
29								-	-	63	62	60
30								-	-	58	63	61.5
31								-	-	58	57.5	63
								-	-	58	56.5	63.5
								-	-	58	57.5	63
								-	-	58	56.5	63.5
								-	-	58	56.5	63.5

MAX

MIN

-No Data.

1/ Palmer thermograph located $\frac{1}{4}$ mile below Keswick Dam (R.M. 301.9).

2/ Unpublished data from DFG, Region 1.

YEAR 1977

Table 4b. Daily Maximum and Minimum Water Temperature below Keswick Dam 1976-77, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1						57	55	59	58	66.5	65	
2						55.1	54.9	59.5	59	67	65	64
3						55.1	54.9	60	59	68	66	64
4						55.2	54.9	60	59	68	66.5	68.5
5						56.3	55	60.5	60	68	66	69
6						57	55.1	60.5	59.5	-	-	68
7						56	55.1	61	59.5	-	-	68
8						57	53	61	60	-	-	68
9						56	53.2	61	60.5	-	-	-
10						57	54	61.5	60.5	-	-	-
11						55.5	55	62	60.5	68	-	-
12						55.5	54.5	61.5	60.5	67	66	-
13						56	55	61.5	60	67	66	-
14						56	55	62	61	67	66	65
15						56	55	62.5	61	67	66	66
16						55	54	62.5	61.5	67	66	65.5
17						55	54	63	61.5	67	66	65.5
18						55	54	63	62	67	66	64.5
19						55.5	54.5	63	62	-	-	63.5
20						56	55	64	62	-	-	63.5
21						56	54.5	64.5	62	-	-	63
22						56	55.5	64.5	63	-	-	62.5
23						56.5	55.5	65	63.5	-	-	63.5
24						57	55.5	64.5	63	-	-	62.5
25						56.5	55	65	63.5	63.5	-	-
26						56.5	55	65	64	-	-	62.5
27						57	56	65.5	64	69	66	63
28						58	56	66	64	68	66	63
29						57	56.5	66	64	68	65	64
30						57	56	66	64	68	66	64
31										67	65	68
												65
												67
												58
												58
												58.5
												58

33

MAX

MIN

-No Data.

YEAR 1983

Table 4c. Daily Maximum and Minimum Water Temperatures below Keswick Dam, 1983-84^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	
1						48	46	50	49	51	50	52	55
2						48	48	50	49	51	50	52	55
3						48	48	50	50	51	50	52	55
4						48	48	50	50	51	50	52	55
5					45	45	49	48	50	51	50	53	56
6					-	43	49	48	56	50	-	-	56
7					46	46	49	48	56	50	-	-	56
8					46	46	49	48	54	51	50	-	56
9					46	46	49	48	53	51	51	-	56
10					46	46	49	48	53	51	51	-	53
11					46	46	49	48	53	52	51	-	53
12					46	46	49	48	52	52	51	54	52
13					46	46	49	48	52	52	51	54	55
14					46	46	49	48	52	52	51	-	52
15					46	42	49	49	52	52	51	-	53
16					-	-	49	49	52	50	51	-	53
17					-	-	52	49	50	50	52	54	53
18					50	47	50	49	51	50	52	53	55
19					47	46	50	49	51	50	52	54	54
20					46	46	50	49	51	50	52	54	54
21					46	46	50	49	51	50	52	53	54
22					46	46	50	49	51	50	52	54	53
23					46	46	50	49	51	50	52	54	52
24					46	46	50	49	51	50	52	54	52
25					46	45	50	49	51	51	52	54	53
26					46	46	50	49	51	50	52	54	53
27					46	45	50	50	51	50	52	54	53
28					46	46	50	49	51	50	52	54	50
29					46	46	49	49	51	50	52	54	49
30					46	46	50	49	51	50	52	55	48
31					47	46			51	50	52	55	48
	MAX							52	56	52			
	MIN							46	49	50			

-No Data.

1/ Palmer thermograph located about one mile below Keswick Dam (RM 301.3) on west bank.

2/ Unpublished data from DWR, Northern District.

YEAR 1984

Table 4c. Daily Maximum and Minimum Water Temperature for Sacramento River Below Keswick 1983-84 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	48	-	-	54	54	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
2	49	48	-	-	55	54	49	48	47	47	49	48	49	48	49	48	49	48	49	48	48	48	48	48
3	49	48	-	-	56	55	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
4	49	49	56	56	55	55	49	49	47	47	47	47	48	48	48	48	48	48	48	48	48	48	48	48
5	49	49	56	56	55	55	49	49	47	47	47	47	48	48	48	48	48	48	48	48	48	48	48	48
6	49	49	56	56	55	55	49	49	48	48	47	47	48	48	48	48	48	48	48	48	48	48	48	48
7	50	49	56	56	55	55	49	49	48	48	47	47	48	48	48	48	48	48	48	48	48	48	48	48
8	50	50	56	56	55	55	49	49	48	48	47	47	49	48	49	48	49	48	49	48	48	48	48	48
9	49	50	56	56	55	55	49	49	48	48	47	47	49	48	49	48	49	48	49	48	48	48	48	48
10	50	50	56	56	-	-	49	48	48	48	47	47	49	48	49	48	49	48	49	48	48	48	48	48
11	48	47	56	56	-	-	48	48	47	47	47	47	48	48	48	48	48	48	48	48	48	48	48	48
12	47	46	56	56	-	-	48	48	47	47	47	47	48	48	48	48	48	48	48	48	48	48	48	48
13	47	46	56	56	-	-	49	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
14	47	46	56	56	50	48	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
15	46	46	56	56	48	48	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
16	46	45	56	56	48	47	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
17	46	46	56	56	48	47	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
18	46	46	56	56	48	47	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
19	45	45	56	56	48	47	49	49	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
20	45	45	56	56	48	48	49	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
21	45	45	57	56	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
22	45	45	57	57	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
23	45	45	57	55	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
24	-	-	55	55	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
25	-	-	55	55	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
26	-	-	56	55	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
27	-	-	55	55	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
28	-	-	55	54	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
29	-	-	54	54	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
30	-	-	-	-	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
31	-	-	-	-	48	48	48	48	47	47	47	47	49	48	49	48	49	48	49	48	48	48	48	48
	MAX						49		48															
	MIN						47		47															
	-No Data.																							

YEAR 1986

Table 4d. Daily Maximum and Minimum Water Temperature for Sacramento River below Keswick Dam, 1986-89 1/2/

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1					48	48	51	50	51	50	53	52
2					48	47	50	50	51	51	53	52
3					47	47	51	50	52	51	53	52
4					47	47	50	50	52	51	53	52
5					48	47	50	50	52	51	53	52
6					48	48	50	50	52	51	53	52
7					48	48	50	50	52	51	53	52
8					49	48	50	50	52	51	52	52
9					49	48	50	50	52	51	52	52
10					49	48	50	50	51	51	52	51
11						48	48	50	50	51	51	51
12						49	48	50	50	52	51	52
13						49	49	50	49	51	51	52
14						49	49	49	49	52	51	52
15						49	49	49	49	52	51	52
16						49	48	50	49	50	51	52
17						48	48	50	49	50	51	52
18						48	47	50	50	49	53	52
19						49	48	50	50	50	52	52
20						49	48	50	50	49	52	52
21						49	48	50	49	50	52	52
22						50	49	50	49	50	53	52
23						50	49	50	49	50	53	52
24						49	48	49	49	50	53	52
25						49	48	49	49	50	53	52
26						48	48	50	50	50	53	52
27						48	48	50	50	50	53	52
28						48	48	50	50	50	53	52
29						48	48	50	49	50	53	52
30						48	48	50	50	50	53	52
31							50	50	50	50	53	52
MAX							50	51	53	53	54	55
MIN							47	49	50	51	52	53

-No Data.

1/ Palmer thermograph located about one mile below Keswick Dam (RM 301.3) on west bank.

2/ Unpublished data collected by DWR, Northern District.

YEAR 1987

Table 4d. Daily Maximum and Minimum Water Temperature for Sacramento River below Keswick Dam, 1986-89 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	49	49	48	48	48	48	49	48	47	47	49	49	50	50	54	53	55	52	58	57	52	52	54	53	
2	50	50	48	48	48	48	48	48	47	47	49	49	50	50	54	53	55	53	57	57	52	52	54	53	
3	50	50	48	48	48	48	49	48	48	47	49	48	51	50	54	53	54	53	57	57	53	52	54	53	
4	50	50	48	48	48	48	48	48	47	47	48	48	51	50	54	53	54	53	57	57	53	52	54	53	
5	50	50	48	48	48	48	48	48	48	47	48	48	51	50	54	54	53	53	57	57	54	53	53	52	
6	50	50	48	48	47	47	48	48	48	48	48	48	51	50	54	54	53	53	57	57	54	54	52	52	
7	50	50	48	48	46	46	48	48	48	48	48	48	51	50	54	54	53	53	57	56	54	54	52	51	
8	50	50	48	48	46	46	48	48	48	48	48	48	51	50	54	54	53	53	56	56	54	54	52	51	
9	50	49	48	48	47	46	48	48	48	48	49	48	51	50	54	54	53	53	55	55	54	53	52	51	
10	49	49	48	48	47	47	48	48	48	48	49	48	51	51	54	54	55	53	55	55	55	54	52	51	
11	49	49	48	48	47	47	48	48	49	48	49	48	52	51	54	54	55	55	55	55	54	53	52	51	
12	49	49	48	48	47	47	48	48	49	48	49	49	52	51	55	54	55	55	55	55	53	53	52	51	
13	49	49	48	48	47	47	48	48	49	49	49	49	52	51	55	55	56	55	55	55	54	53	51	51	
14	49	48	48	47	47	47	48	48	49	49	49	49	52	52	55	55	56	56	55	55	54	53	51	51	
15	48	48	47	47	47	47	48	48	49	49	49	49	52	52	55	55	57	56	55	55	53	53	51	51	
16	48	48	48	47	48	47	48	48	49	49	49	49	52	52	55	55	57	57	55	54	53	53	51	50	
17	48	48	48	48	48	48	48	48	49	49	49	49	50	49	52	52	56	55	57	57	54	54	53	52	
18	48	48	48	48	48	48	48	48	48	49	49	49	50	49	52	51	56	56	57	57	54	53	54	50	
19	48	48	48	48	48	48	48	48	47	49	49	49	50	49	52	51	56	56	58	57	54	54	54	51	
20	48	48	48	48	48	47	47	47	49	49	49	49	50	49	52	51	56	56	58	58	54	54	53	50	
21	48	48	48	48	48	47	47	47	49	49	49	49	50	49	52	51	56	56	58	58	54	53	55	50	
22	48	48	48	48	47	47	48	47	49	49	48	50	49	52	52	56	56	58	58	53	53	55	54	50	
23	48	48	48	48	47	47	48	47	49	49	49	50	50	53	52	57	56	58	57	53	53	55	54	50	
24	48	48	48	47	48	47	48	48	49	49	49	50	50	53	52	57	57	57	57	53	53	55	55	49	
25	48	48	48	47	48	47	48	48	49	49	48	50	50	53	52	57	57	58	57	54	53	55	54	49	
26	48	48	47	47	48	47	48	48	48	48	48	50	50	53	52	57	57	58	58	54	53	55	54	48	
27	48	48	47	47	48	48	48	48	49	48	48	50	50	53	53	54	53	58	58	53	53	55	54	48	
28	48	48	48	47	49	48	47	47	49	49	49	50	49	53	53	54	53	58	58	53	52	55	54	47	
29	48	48			48	48	47	47	49	49	49	50	49	53	53	55	53	58	57	52	52	55	54	47	
30	48	48			48	48	47	47	49	49	49	50	49	53	53	55	53	58	57	52	52	54	54	47	
31	48	48					48	48			49	49			53	53	54	52			52	52			47
MAX	50	48	49	49	49	49	49	49	50	50	53	53	57	57	58	58	58	55	55	54					
MIN	48	47	46	47	47	47	47	47	48	48	50	50	52	52	52	52	53	53	52	52					

YEAR 1988

Table 4d. Daily Maximum and Minimum Water Temperature for Sacramento River below Keswick Dam, 1986-89 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	47	-	-	48	47	48	48	51	50	50	50	52	51	55	54	58	57	59	59	55	54	55	55
2	48	47	-	-	48	47	49	48	50	50	50	50	52	52	55	54	58	57	59	58	55	54	55	55
3	48	48	-	-	48	48	49	48	50	50	50	50	52	52	55	54	58	57	59	58	55	54	55	55
4	48	48	47	46	48	47	49	48	50	50	50	50	52	52	55	54	58	57	59	58	54	54	55	55
5	48	47	47	46	48	47	49	48	50	50	50	50	53	52	55	54	59	57	59	58	55	54	55	54
6	48	47	47	46	48	47	49	49	50	49	50	49	52	52	55	54	59	57	59	59	55	54	54	54
7	48	48	47	46	48	47	49	49	49	49	49	49	53	52	55	55	59	57	59	58	55	54	54	54
8	48	48	47	47	48	47	49	48	49	49	50	49	52	52	56	55	59	57	59	58	55	54	54	54
9	48	48	47	47	48	48	49	48	50	49	50	50	53	53	56	55	59	58	58	58	54	54	55	54
10	48	47	47	47	48	47	49	48	50	49	50	50	53	53	56	55	59	58	58	58	54	54	54	54
11	48	47	48	47	48	47	49	48	50	49	50	50	54	53	56	55	59	58	58	58	54	54	54	53
12	47	47	48	47	48	47	49	48	50	50	50	50	54	53	57	55	59	58	58	57	55	54	53	53
13	-	-	48	47	48	47	49	48	50	50	50	50	54	53	57	55	59	58	57	56	55	55	53	53
14	-	-	48	47	48	47	48	48	50	50	50	50	54	54	57	55	59	59	56	55	55	53	53	53
15	-	-	-	-	48	48	49	48	50	50	50	50	54	54	56	56	59	59	55	55	56	55	53	53
16	-	-	-	-	48	48	49	48	50	50	50	51	50	55	54	57	56	60	59	56	55	56	53	53
17	-	-	-	-	49	48	48	48	50	50	51	50	55	54	58	57	60	59	55	55	56	55	53	53
18	-	-	-	-	48	48	49	48	50	50	51	50	55	54	58	57	59	58	55	54	57	56	53	53
19	-	-	-	-	48	48	49	49	50	50	51	51	55	54	58	57	59	58	55	54	58	57	53	52
20	-	-	-	-	48	48	49	49	50	50	51	51	55	54	58	57	59	59	55	54	58	58	52	52
21	-	-	-	-	49	48	49	49	50	50	51	51	55	54	58	57	59	59	54	54	58	57	52	51
22	-	-	47	47	48	48	49	49	50	50	51	51	55	54	58	57	59	58	54	54	57	56	51	50
23	-	-	48	47	49	48	49	49	50	50	51	51	54	54	58	57	59	58	54	54	56	55	50	50
24	-	-	48	47	48	48	50	49	50	50	51	51	54	54	58	57	59	58	54	54	55	55	50	50
25	-	-	48	47	49	48	50	49	50	50	52	51	54	54	58	57	59	58	54	54	55	55	50	50
26	-	-	48	47	49	48	50	49	50	50	52	51	54	54	58	57	59	58	54	54	55	55	50	50
27	-	-	48	47	49	48	50	49	50	50	52	51	54	54	58	57	59	58	54	54	55	55	50	50
28	-	-	48	47	49	48	50	50	50	50	52	52	54	53	58	56	59	59	54	54	56	55	50	50
29	-	-	48	48	48	48	50	50	50	50	52	52	54	53	58	56	59	58	54	54	55	55	50	50
30	-	-			48	48	51	50	50	50	52	51	54	54	58	57	60	59	55	54	55	55	50	50
31	-	-			48	48			50	50			54	54	58	57			55	54			50	50
MAX					49		51		51		52		55		58		60		59		58		55	
MIN					47		48		49		50		51		54		57		53		54		50	

- No Data.

YEAR 1989

Table 4d. Daily Maximum and Minimum Water Temperature for Sacramento River below Keswick Dam, 1986-89 (Continued)

	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
DAY	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	50	49	47	46	46	46	48	48	47	47	47	47	47	47	49	48									
2	49	49	46	46	46	46	48	48	47	47	47	47	47	47	49	48									
3	49	49	47	46	46	46	48	48	47	46	47	47	47	47	49	48									
4	49	49	46	46	46	46	49	48	47	46	47	47	47	47	49	49									
5	49	49	46	46	46	46	50	48	47	46	47	46	47	46	49	49									
6	49	48	46	46	46	46	49	48	47	47	47	46	47	46	50	49									
7	48	48	46	46	46	46	50	49	47	47	46	47	47	46	50	50									
8	48	47	46	45	47	46	50	49	47	47	46	48	47	48	50	50									
9	47	47	46	45	46	46	50	49	47	46	48	48	48	48	50	50									
10	48	47	45	45	46	46	49	48	46	46	48	48	48	48	50	50									
11	48	47	45	45	47	46	50	49	47	46	48	48	48	48	50	50									
12	48	47	46	45	47	47	50	49	47	46	48	48	48	48	50	50									
13	47	47	47	46	47	47	49	48	47	47	48	48	48	48	48	50									
14	47	47	46	46	48	48	49	48	47	47	48	48	48	48	48	48									
15	47	47	46	46	49	48	49	48	47	47	48	48	48	48	48	48									
16	47	47	46	46	49	48	49	48	47	47	48	48	48	48	48	48									
17	47	47	46	46	48	48	49	48	47	47	48	48	48	48	48	48									
18	48	47	46	46	48	48	49	48	47	47	48	48	48	48	48	48									
19	48	47	46	46	49	48	48	48	47	47	48	48	48	48	48	48									
20	48	47	46	46	50	48	49	48	47	47	48	48	48	48	48	48									
21	48	48	46	46	50	49	49	48	47	47	48	48	48	48	48	48									
22	48	47	46	46	50	49	49	48	47	47	48	48	48	48	48	48									
23	47	47	46	46	50	49	48	47	47	47	49	49	48	48	48	48									
24	47	46	46	46	50	49	48	47	47	47	49	49	48	48	48	48									
25	47	46	46	46	50	49	47	47	47	47	48	48	48	48	48	48									
26	47	46	46	46	50	49	48	47	47	47	48	49	48	48	48	48									
27	47	46	47	46	50	48	48	48	47	47	47	48	48	48	48	48									
28	47	46	47	46	48	48	49	48	47	47	47	48	48	48	48	48									
29	47	46			48	48	48	48	47	47	47	48	48	48	48	48									
30	47	46			48	48	48	47	47	47	47	48	48	48	48	48									
31	47	46			48	48			47	47															
MAX	50		47		50		50		47		47		49												
MIN	46		45		46		47		46		46		46												

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
3	19	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	20	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	21	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	22	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	23	1988	9.0	48.2	9.0	48.2	9.0	48.2
3	24	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	25	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	26	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	27	1988	8.5	47.3	9.5	49.1	8.5	47.3
3	28	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	29	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	30	1988	8.5	47.3	9.0	48.2	8.5	47.3
3	31	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	1	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	2	1988	8.5	47.3	9.5	49.1	8.5	47.3
4	3	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	4	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	5	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	6	1988	8.5	47.3	9.5	49.1	8.5	47.3
4	7	1988	8.5	47.3	9.5	49.1	8.5	47.3
4	8	1988	8.5	47.3	9.5	49.1	8.5	47.3
4	9	1988	9.0	48.2	9.0	48.2	9.0	48.2
4	10	1988	8.5	47.3	9.0	48.2	8.5	47.3
4	11	1988	9.0	48.2	9.0	48.2	9.0	48.2
7	16	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	17	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	18	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	19	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	20	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	21	1988	13.0	55.4	13.5	56.3	13.0	55.4
7	22	1988	13.0	55.4	13.5	56.3	12.5	54.5
7	23	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	24	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	25	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	26	1988	13.0	55.4	13.5	56.3	12.5	54.5
7	27	1988	13.0	55.4	14.0	57.2	13.0	55.4
7	28	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	29	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	30	1988	12.5	54.5	13.5	56.3	12.5	54.5
7	31	1988	12.5	54.5	13.5	56.3	12.5	54.5
8	1	1988	13.0	55.4	13.5	56.3	13.0	55.4
8	2	1988	13.0	55.4	13.5	56.3	13.0	55.4
8	3	1988	13.0	55.4	13.5	56.3	13.0	55.4

1/ Omnidata DP112 thermograph located about 1 mile below Keswick Dam (river mile 301.3) on west bank.

2/ Unpublished data collected by DWR, Northern District.

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	4	1988	13.0	55.4	14.0	57.2	13.0	55.4
8	5	1988	13.0	55.4	13.5	56.3	13.0	55.4
8	6	1988	13.0	55.4	14.0	57.2	13.0	55.4
8	7	1988	13.5	56.3	14.0	57.2	13.5	56.3
8	8	1988	13.5	56.3	14.5	58.1	13.0	55.4
8	9	1988	13.5	56.3	14.5	58.1	13.5	56.3
8	10	1988	13.5	56.3	14.5	58.1	13.0	55.4
8	12	1988	14.0	57.2	15.0	59.0	13.5	56.3
9	23	1988	18.0	64.4	18.5	65.3	18.0	64.4
9	24	1988	17.5	63.5	18.0	64.4	17.5	63.5
9	25	1988	17.5	63.5	18.0	64.4	17.5	63.5
9	26	1988	17.5	63.5	18.0	64.4	17.5	63.5
9	27	1988	17.5	63.5	18.0	64.4	17.5	63.5
9	28	1988	17.5	63.5	18.5	65.3	17.5	63.5
9	29	1988	17.5	63.5	18.0	64.4	17.5	63.5
9	30	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	1	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	2	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	3	1988	17.5	63.5	18.5	65.3	17.5	63.5
10	4	1988	18.0	64.4	18.5	65.3	18.0	64.4
10	5	1988	18.0	64.4	18.5	65.3	18.0	64.4
10	6	1988	18.0	64.4	18.5	65.3	18.0	64.4
10	7	1988	18.0	64.4	18.5	65.3	18.0	64.4
10	8	1988	17.5	63.5	18.5	65.3	17.5	63.5
10	9	1988	17.5	63.5	18.5	65.3	17.5	63.5
10	10	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	11	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	12	1988	17.5	63.5	18.0	64.4	17.5	63.5
10	13	1988	15.0	59.0	17.5	63.5	13.5	56.3
10	14	1988	13.5	54.5	14.0	57.2	13.0	55.4
10	15	1988	13.5	54.5	14.0	57.2	13.0	55.4
10	16	1988	13.5	54.5	14.5	58.1	13.0	55.4
10	17	1988	13.0	55.4	14.0	57.2	13.0	55.4
10	18	1988	13.0	55.4	13.5	56.3	13.0	55.4
10	19	1988	13.0	55.4	13.5	56.3	13.0	55.4
10	20	1988	13.0	55.4	13.5	56.3	13.0	55.4
10	21	1988	13.0	55.4	13.5	56.3	13.0	55.4
10	22	1988	13.0	55.4	13.5	56.3	12.5	54.5
10	23	1988	13.0	55.4	13.5	56.3	12.5	54.5
10	24	1988	13.0	55.4	13.5	56.3	13.0	55.4
10	25	1988	12.5	54.5	13.0	55.4	12.5	54.5
10	26	1988	12.5	54.5	13.0	55.4	12.5	54.5
10	27	1988	12.5	54.5	13.0	55.4	12.5	54.5
10	28	1988	12.5	54.5	13.0	55.4	12.5	54.5
10	29	1988	12.5	54.5	13.0	55.4	12.5	54.5
10	30	1988	13.0	55.4	13.5	56.3	13.0	55.4

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	31	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	1	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	2	1988	13.0	55.4	13.0	55.4	13.0	55.4
11	3	1988	13.0	55.4	13.0	55.4	13.0	55.4
11	4	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	5	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	6	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	7	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	8	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	9	1988	13.0	55.4	13.0	55.4	13.0	55.4
11	10	1988	13.0	55.4	13.0	55.4	13.0	55.4
11	11	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	12	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	15	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	16	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	17	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	18	1988	13.5	56.3	14.5	58.1	13.5	56.3
11	19	1988	14.5	58.1	15.0	59.0	14.5	58.1
11	20	1988	14.5	58.1	15.0	59.0	14.5	58.1
11	21	1988	14.0	57.2	14.5	58.1	13.5	56.3
11	22	1988	13.5	56.3	14.0	57.2	12.5	54.5
11	23	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	24	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	25	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	26	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	27	1988	13.0	55.4	14.0	57.2	13.0	55.4
11	28	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	29	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	30	1988	13.0	55.4	14.0	57.2	13.0	55.4
12	1	1988	13.5	56.3	14.0	57.2	13.0	55.4
12	2	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	3	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	4	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	5	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	6	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	7	1988	13.0	55.4	13.0	55.4	13.0	55.4
12	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	9	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	10	1988	13.0	55.4	13.5	56.3	13.0	55.4
12	11	1988	12.5	54.5	13.0	55.4	12.5	54.5
12	12	1988	12.5	54.5	13.0	55.4	12.5	54.5
12	13	1988	12.5	54.5	13.0	55.4	12.5	54.5
12	14	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	15	1988	12.0	53.6	12.5	54.5	12.0	53.6

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	16	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	17	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	18	1988	12.0	53.6	12.0	53.6	12.0	53.6
12	19	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	20	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	21	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	22	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	23	1988	11.0	51.8	11.0	51.8	11.0	51.8
12	24	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	25	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	26	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	27	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	28	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	29	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	30	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	31	1988	10.5	50.9	11.0	51.8	10.0	50.0

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	10.0	50.0	10.5	50.9	10.0	50.0
1	2	1989	10.0	50.0	11.0	51.8	10.0	50.0
1	3	1989	10.0	50.0	11.0	51.8	10.0	50.0
1	27	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	28	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	29	1989	9.0	48.2	9.5	49.1	8.5	47.3
1	30	1989	9.0	48.2	9.5	49.1	9.0	48.2
1	31	1989	9.0	48.2	9.5	49.1	9.0	48.2
2	1	1989	8.5	47.3	9.0	48.2	8.5	47.3
2	2	1989	8.5	47.3	9.0	48.2	8.5	47.3
2	3	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	4	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	5	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	6	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	7	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	8	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	9	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	10	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	11	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	12	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	13	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	14	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	15	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	16	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	17	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	18	1989	8.0	46.4	8.0	46.4	8.0	46.4
2	19	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	20	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	21	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	22	1989	8.0	46.4	8.5	47.3	8.0	46.4
2	23	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	24	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	25	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	26	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	27	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	28	1989	7.5	45.5	8.5	47.3	7.5	45.5
3	1	1989	7.5	45.5	7.5	45.5	7.5	45.5
3	2	1989	7.5	45.5	8.0	46.4	7.5	45.5
3	3	1989	7.5	45.5	8.5	47.3	7.0	44.6
3	4	1989	7.0	44.6	7.5	45.5	7.0	44.6
3	5	1989	7.5	45.5	7.5	45.5	7.5	45.5
3	6	1989	7.5	45.5	8.0	46.4	7.5	45.5
3	7	1989	8.0	46.4	9.5	49.1	7.5	45.5
			-	-	-	-	-	-
7	14	1989	10.5	50.9	11.0	51.8	10.5	50.9
7	15	1989	11.0	51.8	11.5	52.7	11.0	51.8

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
7	16	1989	11.0	51.8	11.5	52.7	10.5	50.9
7	17	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	18	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	19	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	20	1989	11.0	51.8	11.5	52.7	10.5	50.9
7	21	1989	10.5	50.9	11.0	51.8	10.5	50.9
7	22	1989	11.0	51.8	11.5	52.7	10.5	50.9
7	23	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	24	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	25	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	26	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	27	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	28	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	29	1989	11.0	51.8	11.5	52.7	11.0	51.8
7	30	1989	11.5	52.7	12.0	53.6	11.0	51.8
7	31	1989	11.0	51.8	11.5	52.7	11.0	51.8
8	1	1989	11.0	51.8	11.5	52.7	11.0	51.8
8	2	1989	11.5	52.7	12.0	53.6	11.5	52.7
8	3	1989	11.5	52.7	12.0	53.6	11.5	52.7
8	4	1989	11.5	52.7	12.5	54.5	11.5	52.7
8	5	1989	11.5	52.7	12.5	54.5	11.5	52.7
8	6	1989	11.5	52.7	12.5	54.5	11.5	52.7
8	7	1989	11.5	52.7	12.0	53.6	11.5	52.7
8	8	1989	12.0	53.6	12.5	54.5	12.0	53.6
8	9	1989	12.0	53.6	12.5	54.5	12.0	53.6
8	10	1989	12.0	53.6	12.5	54.5	12.0	53.6
8	11	1989	12.0	53.6	12.5	54.5	12.0	53.6
8	12	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	13	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	14	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	15	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	16	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	17	1989	12.0	53.6	13.0	55.4	11.5	52.7
8	18	1989	12.0	53.6	13.0	55.4	11.5	52.7
8	19	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	20	1989	12.5	54.5	13.0	55.4	12.0	53.6
8	21	1989	12.5	54.5	13.0	55.4	12.5	54.5
8	22	1989	12.5	54.5	13.0	55.4	12.0	53.6
8	23	1989	12.5	54.5	13.0	55.4	12.0	53.6
8	24	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	25	1989	12.0	53.6	12.5	54.5	11.5	52.7
8	26	1989	12.5	54.5	13.0	55.4	12.0	53.6
8	27	1989	12.5	54.5	13.0	55.4	12.0	53.6
8	28	1989	12.5	54.5	13.5	56.3	12.0	53.6
8	29	1989	12.0	53.6	13.0	55.4	12.0	53.6
8	30	1989	12.0	53.6	13.0	55.4	11.5	52.7

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	31	1989	12.0	53.6	13.0	55.4	12.0	53.6
9	1	1989	12.0	53.6	12.5	54.5	11.5	52.7
9	2	1989	12.0	53.6	12.5	54.5	11.5	52.7
9	3	1989	12.0	53.6	13.0	55.4	11.5	52.7
9	4	1989	12.0	53.6	12.5	54.5	11.5	52.7
9	5	1989	12.0	53.6	13.0	55.4	12.0	53.6
9	6	1989	12.0	53.6	13.0	55.4	11.5	52.7
9	7	1989	12.0	53.6	13.0	55.4	11.5	52.7
9	8	1989	12.0	53.6	13.0	55.4	11.5	52.7
9	9	1989	12.0	53.6	13.0	55.4	11.5	52.7
9	10	1989	12.0	53.6	12.5	54.5	12.0	53.6
9	11	1989	12.0	53.6	13.0	55.4	12.0	53.6
9	12	1989	12.0	53.6	13.0	55.4	12.0	53.6
9	13	1989	12.0	53.6	12.5	54.5	12.0	53.6
9	14	1989	12.0	53.6	12.5	54.5	12.0	53.6
9	15	1989	12.0	53.6	13.0	55.4	12.0	53.6
9	16	1989	12.5	54.5	13.0	55.4	12.5	54.5
9	17	1989	12.5	54.5	13.0	55.4	12.5	54.5
9	18	1989	12.5	54.5	13.5	56.3	12.5	54.5
9	19	1989	13.0	55.4	14.0	57.2	13.0	55.4
9	20	1989	13.0	55.4	14.0	57.2	13.0	55.4
9	22	1989	13.0	55.4	14.0	57.2	13.0	55.4
9	23	1989	13.5	56.3	14.5	58.1	13.5	56.3
9	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
9	25	1989	13.0	55.4	13.5	56.3	12.5	54.5
9	26	1989	12.5	54.5	13.0	55.4	12.5	54.5
9	27	1989	12.5	54.5	13.0	55.4	12.5	54.5
9	28	1989	12.5	54.5	13.5	56.3	12.5	54.5
9	29	1989	12.5	54.5	13.0	55.4	12.5	54.5
9	30	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	1	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	2	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	3	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	4	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	5	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	6	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	7	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	8	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	9	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	10	1989	13.5	56.3	14.5	58.1	13.5	56.3
10	11	1989	13.5	56.3	14.5	58.1	13.5	56.3
10	12	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	13	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	14	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	15	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	16	1989	13.0	55.4	13.5	56.3	12.5	54.5

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	17	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	18	1989	12.5	54.5	13.0	55.4	12.5	54.5
10	20	1989	12.5	54.5	13.0	55.4	12.5	54.5
10	21	1989	12.5	54.5	13.0	55.4	12.5	54.5
10	22	1989	12.5	54.5	13.0	55.4	12.5	54.5
10	23	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	24	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	25	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	26	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	27	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	28	1989	13.5	56.3	15.0	59.0	13.5	56.3
10	29	1989	13.5	56.3	15.0	59.0	13.5	56.3
10	30	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	31	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	01	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	02	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	03	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	04	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	05	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	06	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	07	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	08	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	09	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	10	1989	14.0	57.2	15.0	59.0	14.0	57.2
11	11	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	12	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	13	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	14	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	15	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	16	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	17	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	18	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	19	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	20	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	21	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	22	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	23	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	24	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	25	1989	13.5	56.3	13.5	56.3	13.5	56.3
11	26	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	27	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	28	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	29	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	30	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	1	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	2	1989	13.0	55.4	13.5	56.3	13.0	55.4

Table 4e. Daily Mean, Maximum, and Minimum Water Temperatures below Keswick Dam, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	3	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	4	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	5	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	6	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	7	1989	12.5	54.5	13.0	55.4	12.5	54.5
12	8	1989	12.5	54.5	13.0	55.4	12.5	54.5
12	9	1989	12.5	54.5	13.0	55.4	12.5	54.5
12	10	1989	12.5	54.5	13.0	55.4	12.5	54.5
12	11	1989	12.5	54.5	13.0	55.4	12.5	54.5
12	12	1989	12.0	53.6	12.5	54.5	12.0	53.6
12	13	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	14	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	15	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	16	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	17	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	18	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	19	1989	11.5	52.7	12.0	53.6	11.0	51.8
12	20	1989	11.5	52.7	12.0	53.6	11.5	52.7
12	21	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	22	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	23	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	24	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	25	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	26	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	27	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	28	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	29	1989	11.0	51.8	11.5	52.7	10.5	50.9

YEAR 1987

Table 4f. Periodic Afternoon and Morning Water Temperatures at Keswick Powerhouse, 1987^{1/ 2/}

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM
1									55.4	-	-	-
2									-	-	53.6	53.6
3									53.6	-	53.8	53.6
4									-	-	54.1	53.6
5									-	-	54	53.8
6									-	-	54.7	54.7
7									-	-	-	-
8									-	53.2	56.1	56.3
9									-	54	55.9	55.9
10									-	54.7	-	54.3
11									-	-	-	-
12									-	-	54	54
13									-	55.4	55	-
14									-	54.7	55	-
15									-	54.9	54.7	-
16									-	57.2	-	54.3
17									-	-	-	54
18									-	-	-	54
19									-	-	-	55
20									-	55.9	-	53.2
21									-	-	-	53.2
22									-	-	57.6	-
23									-	-	-	53.4
24									-	-	-	53.2
25									-	57.6	-	-
26									-	-	-	53.2
27									-	54.5	-	-
28									-	-	55	-
29									-	-	53.2	-
30									-	55.9	-	-
31									-	-	-	-

MAX

MIN.

-No Data.

1/ Handheld readings taken with ASTM thermometer.

2/ Unpublished data collected by DFG, Region 1.

YEAR 1939

Table 5a. Daily Afternoon and Morning Water Temperatures at Redding, 1939^{1/ 2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	5PM	9AM	
1					59	59	66	65	70	69	73	71	-	64	62	62	55	55							
2					60	59	66	66	69	68	73	71	-	64	60	60	54	54							
3					60	59	66	66	68	68	72	70	-	64	59	57	-	54							
4					60	59	65	64	68	67	72	70	-	63	58	56	54	52							
5					61	60	63	63	68	67	71	69	64	63	57	58	52	52							
6					61	60	64	62	69	68	71	69	64	64	57	56	52	51							
7					62	61	65	64	70	68	71	69	63	63	58	56	52	51							
8					63	62	66	65	70	70	71	69	63	63	57	56	51	50							
9					64	62	67	66	70	70	71	69	62	62	58	56	51	50							
10					64	63	68	67	72	71	71	69	62	62	59	58	50	50							
11					63	62	68	68	72	71	70	69	-	63	59	58	50	49							
12					63	62	70	69	72	70	70	69	64	63	59	58	50	49							
13					63	63	70	68	72	71	70	69	62	61	58	58	49	49							
14					64	64	69	68	72	71	70	69	62	59	58	57	50	48							
15					64	64	65	66	70	70	69	69	62	60	58	57	49	48							
16					64	64	62	62	71	71	70	69	62	60	58	57	-	48							
17					64	64	62	61	71	70	70	69	62	61	57	56	48	-							
18					62	63	62	62	71	70	69	69	62	61	56	55	-	-							
19					62	60	64	63	70	70	70	69	63	62	56	55	-	-							
20					58	60	66	66	70	69	69	69	63	62	56	55	-	48							
21					56	57	68	66	71	70	68	68	65	64	-	-	-	46							
22					56	55	69	68	71	70	68	68	66	64	58	56	-	47							
23					56	54	68	68	72	70	67	68	65	65	57	56	-	-							
24					60	58	68	68	72	70	68	69	65	64	54	55	48	47							
25					62	61	68	68	72	71	68	68	62	63	52	53	-	46							
26					65	63	70	68	72	71	68	67	61	62	51	51	-	-							
27					66	62	70	68	72	71	65	66	61	61	54	51	-	-							
28					66	64	70	69	72	71	66	65	62	61	56	53	-	-							
29					69	68	70	69	73	71	65	65	62	61	-	55	-	-							
30					70	65	70	69	73	71	63	64	62	62	56	-	-	-							
31					66	66			73	71	64	64			56	55									

-No Data.

MAX

70 70 73 73

MIN

54 61 67 64

1/ Hand held readings taken from headworks of the Anderson-Cottonwood Irrigation Canal Dam.

2/ From USFWS, 1952.

YEAR 1947

Table 5b. Daily Maximum and Minimum Water Temperatures at Redding, 1947-51^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.								
	max min																			
1					50	49	50	50	51	50	53	51	55	53	57	55	58	58	55	54
2					50	49	50	49	51	50	53	51	55	53	57	56	58	58	55	53
3					50	49	50	49	52	50	53	51	55	53	57	56	58	57	55	55
4					50	49	50	49	52	50	53	51	55	54	57	56	57	57	55	54
5					50	49	—	50	52	50	53	51	55	54	57	56	58	57	55	54
6					50	49	50	50	52	50	53	51	56	54	57	56	58	57	56	55
7					50	49	50	50	52	50	53	51	56	55	57	56	58	57	55	54
8					50	49	51	50	51	50	53	51	55	54	57	56	57	57	55	54
9					50	49	51	50	51	50	53	51	55	53	57	56	57	57	55	53
10					50	49	51	50	51	50	53	51	55	53	57	56	57	56	54	—
11					50	49	52	50	52	50	53	51	55	54	58	57	57	56	54	—
12					50	49	51	50	52	50	53	51	56	54	58	57	58	56	53	—
13					50	49	52	50	52	50	53	51	57	55	57	56	58	57	53	—
14					50	49	52	50	52	50	53	51	57	55	57	56	58	57	54	—
15					50	49	51	50	52	50	54	51	56	55	57	57	57	57	54	—
16					50	49	50	50	52	50	54	52	56	55	58	57	57	57	53	—
17					50	49	51	50	51	50	54	52	56	55	58	57	57	56	54	—
18					50	49	50	49	52	50	54	52	56	55	58	57	56	55	54	—
19					51	49	51	50	52	50	54	52	57	55	58	57	57	56	55	—
20					51	49	52	50	52	50	53	52	57	55	57	57	57	56	54	—
21					51	49	52	50	52	50	53	52	57	55	57	56	57	56	—	—
22					51	49	52	50	52	50	54	52	57	55	57	57	57	56	—	—
23					51	49	52	50	52	50	55	52	57	55	58	57	57	56	53	—
24					51	49	51	50	52	50	55	53	56	55	58	57	57	56	53	—
25					51	49	52	50	52	50	55	53	57	55	58	57	57	55	53	—
26					51	49	52	50	53	51	54	52	57	55	58	58	57	56	53	—
27					51	49	51	50	52	51	54	52	57	55	57	57	56	55	53	—
28					51	49	51	50	53	51	55	53	58	56	57	57	56	56	53	—
29					51	49	51	50	52	50	54	53	57	55	57	57	56	56	53	—
30					51	49	51	50	52	50	55	53	57	55	57	57	55	55	53	—
31					51	49			52	50	55	53			58	58		53	—	
MAX					51				53		55		58		58		58			
MIN					49				50		51		53		55		55			

—No Data.

1/ Unknown thermograph located on headworks of ACID Canal

2/ From USFWS, 1952.

YEAR 1948

Table 5b. Daily Maximum and Minimum Water Temperatures at Redding, 1947-51 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	51	50	51	-	50	46	49	47	50	49	50	49	51	49	51	49	53	51	54	53	55	54	53	53
2	51	49	51	-	49	46	49	49	50	49	50	49	51	49	51	49	53	51	54	53	55	55	54	53
3	52	51	51	-	49	46	49	48	50	49	50	49	51	49	51	50	53	51	53	53	55	55	54	53
4	52	52	50	50	48	-	50	49	50	49	50	49	51	49	52	50	53	51	53	53	55	54	54	53
5	52	52	50	-	49	48	50	48	49	49	50	49	51	49	52	50	52	51	54	53	55	54	53	52
6	52	51	50	-	49	48	49	48	50	49	51	49	51	49	52	50	52	51	54	53	55	54	52	51
7	52	52	50	-	49	48	49	49	50	49	50	49	51	49	52	50	53	51	54	53	54	54	52	52
8	52	51	49	-	49	49	49	48	50	49	50	49	51	49	52	50	53	51	54	53	54	54	52	52
9	52	50	49	-	48	48	49	48	50	49	50	50	51	49	52	50	53	51	54	54	54	53	53	52
10	51	51	52	-	49	47	50	49	50	49	50	50	51	49	52	50	53	51	55	55	54	54	53	49
11	52	51	50	-	49	47	-	47	50	49	50	49	51	49	52	50	52	51	54	53	55	54	52	50
12	51	50	50	-	49	48	50	49	50	49	50	49	51	49	52	50	52	51	54	53	55	54	52	50
13	51	50	50	-	49	48	49	49	50	49	51	49	51	49	52	50	52	51	54	55	54	51	49	
14	51	50	50	-	50	49	49	49	50	49	51	49	51	49	52	50	53	51	54	54	55	53	52	47
15	51	50	50	-	50	48	49	49	49	-	-	50	49	51	49	52	50	53	51	54	54	55	54	52
16	51	50	50	-	49	49	49	48	50	49	50	50	51	49	52	50	53	52	54	53	54	54	52	48
17	52	50	49	-	49	-	49	48	50	49	50	50	51	49	52	50	52	52	54	53	55	54	53	48
18	51	50	49	-	49	-	50	49	50	49	50	49	51	49	52	51	52	52	54	53	55	54	52	46
19	52	50	49	-	50	-	49	49	50	49	50	49	51	49	52	51	53	52	55	53	55	54	52	46
20	51	50	51	-	49	49	49	49	50	49	51	49	51	49	52	51	53	52	55	55	54	54	52	48
21	51	48	-	-	49	49	50	50	50	49	50	49	51	49	52	51	53	52	55	55	54	54	53	45
22	50	49	51	-	49	49	49	48	51	49	51	49	51	49	52	51	53	52	55	55	54	54	53	46
23	50	48	49	-	49	49	49	48	51	49	51	49	51	49	52	51	53	52	55	54	54	53	54	45
24	50	49	49	-	49	-	49	49	50	49	50	49	51	49	52	51	54	53	54	54	54	54	54	47
25	50	49	49	-	49	-	49	48	50	49	50	49	51	49	53	51	53	52	55	54	54	53	51	47
26	50	49	49	-	49	-	49	49	50	49	51	49	51	49	53	51	54	53	54	54	54	53	51	47
27	51	48	49	-	-	-	49	49	50	49	51	49	51	49	53	51	54	53	55	54	55	53	50	48
28	51	48	49	-	49	49	50	50	50	49	51	49	51	50	53	51	54	53	55	55	55	53	50	48
29	50	48	50	-	-	-	50	50	50	49	51	49	51	50	53	51	54	53	56	55	55	53	50	48
30	51	48	48	-	-	-	50	50	50	49	50	49	51	50	53	51	54	53	56	55	55	53	51	47
31	51	48	-	-	49	48	-	-	50	49	50	49	51	49	53	51	-	55	55	-	-	51	48	
MAX	52										51		51		53		54		56		55		54	
MIN	48										49		49		49		51		53		53		45	

- No Data

YEAR 1949

Table 5b. Daily Maximum and Minimum Water Temperatures at Redding, 1947-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	50	47	47	44	45	44	-	-	44	44	49	48	50	48	50	48	53	50	55	54	57	55	57	56
2	50	46	47	45	45	44	-	-	44	44	49	48	49	48	51	49	53	50	55	54	57	56	57	55
3	51	44	46	45	46	45	-	-	45	44	49	48	49	48	51	49	53	51	55	54	57	56	57	56
4	50	43	46	45	45	44	-	-	45	44	49	48	49	48	51	49	53	51	55	54	57	56	57	56
5	50	45	46	43	45	44	-	-	45	44	49	47	49	48	51	49	53	51	55	54	57	56	56	56
6	49	47	45	42	46	44	-	-	47	45	49	47	50	48	51	50	53	51	55	54	57	56	56	55
7	50	47	46	43	45	44	-	-	47	45	49	47	50	48	51	49	53	51	55	54	57	55	56	55
8	50	46	46	44	45	44	-	-	46	45	49	47	50	48	51	49	53	52	56	55	56	56	57	56
9	49	44	45	44	45	44	-	-	46	45	49	47	50	48	51	49	53	52	56	54	57	56	57	56
10	49	43	45	45	46	45	-	-	46	45	49	47	49	47	51	50	53	52	55	55	57	56	58	56
11	48	43	45	44	46	45	-	-	46	45	49	47	49	47	51	49	53	52	55	55	58	57	58	56
12	48	44	45	43	47	46	-	-	46	45	49	47	50	48	51	50	53	52	56	55	57	56	57	55
13	48	45	44	41	49	45	46	45	47	45	49	47	50	48	51	50	53	52	56	55	57	56	57	55
14	50	47	45	42	49	45	46	45	47	45	49	47	50	48	51	49	53	52	56	55	57	55	57	56
15	49	46	45	44	53	46	47	45	46	45	49	47	50	48	51	49	54	53	56	55	57	56	56	56
16	49	45	45	44	49	46	47	45	46	45	49	47	50	48	51	50	54	53	56	55	57	56	56	55
17	48	46	45	44	46	46	47	45	46	45	49	47	50	48	52	50	54	53	56	55	58	56	55	55
18	48	46	46	44	47	46	47	45	46	46	48	47	49	48	51	50	54	52	56	55	58	56	55	55
19	48	46	46	44	48	47	46	45	47	46	48	46	50	49	51	49	54	52	57	55	58	56	56	54
20	47	45	46	44	50	47	46	45	46	46	48	46	50	49	51	49	54	52	57	55	57	56	57	55
21	48	46	45	44	53	46	46	45	47	46	48	46	50	49	51	49	54	52	57	55	57	56	56	55
22	46	44	46	44	46	44	46	44	48	47	48	46	50	49	51	49	54	53	57	56	57	56	56	55
23	45	41	46	44	49	44	45	44	48	46	49	47	50	49	51	50	54	53	57	55	57	56	56	55
24	46	42	45	45	50	43	44	43	48	47	49	48	50	49	51	50	55	53	57	55	57	56	56	54
25	46	43	47	44	-	43	44	43	49	47	49	47	50	48	52	50	54	53	57	55	57	56	55	54
26	48	43	47	45	-	45	45	44	49	48	49	48	50	49	52	50	54	53	57	56	57	56	56	54
27	47	43	48	44	-	45	45	44	49	48	49	47	50	49	52	50	54	53	57	56	57	56	56	54
28	47	44	46	44	-	-	45	44	49	48	49	48	51	49	52	50	55	54	57	56	56	56	56	54
29	46	40	-	-	-	45	44	49	47	50	48	51	49	52	50	55	54	57	56	56	56	56	56	54
30	45	39	-	-	-	45	44	48	47	50	48	50	48	52	50	55	54	57	56	57	56	55	53	-
31	47	44	-	-	-	-	-	-	48	48	-	-	50	49	52	50	-	57	56	-	-	55	53	-
MAX	51	48							49	50	51	52	55	57	58	58								
MIN	39	41							44	46	47	48	50	54	55	55								

-No Data

YEAR 1950

Table 5b. Daily Maximum and Minimum Water Temperature at Redding, 1947-51 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	55	54	51	50	50	48	52	49	51	50	50	49	-	-	50	50	52	50	54	53	56	55	50	47	
2	55	53	51	50	50	48	53	50	51	50	50	48	-	-	50	50	52	50	54	53	55	54	49	47	
3	55	53	50	49	50	48	52	50	51	50	49	48	49	-	50	50	52	50	54	53	55	54	49	47	
4	55	54	49	48	50	49	52	50	48	46	49	48	49	48	51	50	52	51	54	53	55	54	50	48	
5	55	53	48	47	50	48	51	50	47	46	49	48	49	48	50	49	52	51	54	53	55	55	51	48	
6	56	53	50	47	50	49	51	50	47	46	50	49	49	48	50	49	52	51	54	53	56	55	51	50	
7	55	52	50	49	49	48	50	50	48	46	49	48	49	48	50	49	52	51	53	53	56	55	51	50	
8	53	52	50	49	50	48	51	50	47	46	49	48	49	48	50	49	52	51	54	53	56	55	53	50	
9	53	52	50	48	49	48	51	49	47	46	49	48	49	49	51	50	52	51	54	53	56	55	53	50	
10	52	50	49	49	49	48	50	48	49	46	48	48	50	49	51	50	52	51	54	53	55	54	50	49	
11	52	52	50	49	49	48	52	49	49	48	48	48	50	49	51	50	52	51	54	54	55	53	52	48	
12	54	52	50	49	49	47	49	47	49	48	48	48	50	49	50	50	53	52	54	54	55	53	52	48	
13	53	50	49	48	49	48	48	47	49	48	50	48	50	48	50	50	53	52	54	54	54	52	51	51	
14	52	51	49	48	50	47	48	46	49	48	49	48	50	48	50	50	53	53	54	53	55	54	51	50	
15	52	51	50	49	50	48	48	46	49	49	49	48	49	48	51	50	53	52	54	53	55	54	51	51	
16	-	50	49	48	49	48	48	46	49	48	49	49	49	49	51	50	53	52	54	53	54	54	52	51	
17	-	-	49	48	51	48	48	46	49	48	49	48	50	49	51	50	53	52	55	55	56	54	51	50	
18	50	49	49	48	49	48	49	46	49	48	49	48	50	49	51	50	53	52	55	55	54	54	51	50	
19	50	50	49	48	51	48	50	47	49	48	49	48	50	49	51	49	53	52	54	54	55	54	52	50	
20	50	50	49	48	50	48	51	49	49	48	49	49	50	49	50	49	53	53	54	54	55	54	52	51	
21	50	50	49	47	50	48	51	48	49	48	49	49	50	49	50	49	53	53	55	54	55	54	52	51	
22	51	50	49	48	52	48	51	48	49	48	50	49	50	48	51	50	53	53	54	54	55	54	52	51	
23	50	50	49	48	50	49	51	49	50	49	50	48	50	49	51	50	53	53	55	54	55	54	52	51	
24	51	50	49	48	50	48	51	49	50	49	49	48	50	49	51	50	53	53	54	54	55	53	52	51	
25	52	50	49	48	50	48	51	49	49	48	49	48	50	49	51	50	53	52	55	54	55	52	50	50	
26	52	50	50	48	49	48	52	49	49	48	-	-	50	50	51	50	53	53	55	54	53	52	50	49	
27	50	49	49	48	51	48	52	50	49	48	-	-	50	50	51	50	54	53	54	54	53	50	49	48	
28	50	50	50	48	51	48	51	50	50	48	-	-	50	49	51	50	54	53	55	54	53	49	49	48	
29	50	49			50	48	51	50	49	48	-	-	50	49	51	50	54	53	55	54	51	50	50	48	
30	51	49			51	48	51	49	50	48	-	-	50	49	51	50	54	53	56	54	51	49	48	46	
31	51	50				52	49			50	48			50	49	52	51			56	55			47	45
MAX			51		52		53		51							52		54		56		56		53	
MIN			47		47		46		46							49		50		53		49		47	

-No Data

YEAR 1951

Table 5b. Daily Maximum and Minimum Water Temperatures at Redding, 1947-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	45	46	35	48	46	52	50	-	-	52	49	52	49	55	52	56	53	55	52	57	52	52	51
2	49	47	47	39	49	47	52	52	-	-	52	49	52	49	56	52	56	53	54	52	57	53	54	51
3	47	45	45	41	50	47	53	52	-	-	52	49	53	50	56	52	56	52	56	53	55	52	52	51
4	48	46	46	43	49	48	53	52	-	-	53	49	53	49	56	52	56	53	56	53	55	52	51	48
5	49	43	47	41	48	47	53	52	-	-	53	50	52	49	56	52	56	53	56	53	55	51	49	47
6	47	41	54	45	47	46	53	52	-	-	54	49	53	48	57	48	56	53	56	53	56	53	48	45
7	48	41	46	46	47	47	53	52	-	50	53	49	52	48	52	48	56	53	57	54	57	51	47	45
8	45	43	46	45	47	47	53	52	53	50	52	49	52	48	52	48	55	53	57	54	56	51	47	45
9	48	44	40	44	48	47	54	53	53	49	52	48	51	50	52	48	55	53	57	54	55	50	47	43
10	45	43	45	45	48	46	55	53	52	50	52	49	54	50	52	48	56	53	57	54	54	51	49	45
11	47	42	46	45	48	46	55	53	53	51	51	49	55	50	52	49	55	-	56	53	53	49	49	44
12	47	41	50	46	48	46	54	53	55	50	52	49	55	50	52	49	-	-	57	52	55	50	-	-
13	47	41	50	48	49	48	54	53	54	50	51	49	54	50	52	51	-	-	55	52	54	48	-	-
14	46	42	50	49	49	48	54	53	54	50	50	48	55	50	55	51	-	-	57	53	55	53	-	-
15	46	44	50	48	50	48	54	53	53	50	51	48	55	51	55	51	-	-	54	52	56	52	-	-
16	45	40	50	47	49	48	54	50	52	50	51	48	55	50	55	51	-	-	55	52	54	51	-	-
17	46	44	50	48	49	47	51	50	53	50	51	49	54	50	55	51	-	53	56	52	56	53	-	-
18	47	41	50	48	49	47	51	50	52	50	51	50	54	50	55	51	56	53	55	52	56	53	-	-
19	45	40	49	48	49	-	51	50	52	49	53	49	54	50	55	52	56	53	55	51	55	53	-	-
20	45	41	47	47	51	50	52	50	53	49	52	50	54	50	54	52	56	52	54	51	54	52	-	-
21	42	40	48	46	52	50	51	50	52	50	52	49	55	50	55	52	55	52	55	52	54	51	-	-
22	45	41	48	45	51	50	51	50	53	49	52	48	55	51	55	52	55	51	55	51	55	50	-	-
23	50	43	47	45	56	49	51	50	52	49	51	48	55	51	55	52	55	51	54	52	54	51	-	-
24	48	44	48	44	59	50	51	50	52	49	51	48	55	51	55	52	55	50	54	52	54	48	-	-
25	47	42	46	44	52	50	51	50	52	49	52	49	56	51	55	52	53	49	55	51	53	52	-	-
26	48	41	49	45	52	50	50	51	49	52	49	56	51	55	52	53	49	55	51	53	51	-	-	-
27	47	43	50	47	51	49	50	53	50	52	48	55	51	56	53	53	50	55	51	52	51	-	-	-
28	46	40	49	47	51	50	50	52	50	52	48	55	51	57	53	53	50	55	52	53	52	-	-	-
29	46	36			52	49	51	50	52	50	52	48	56	51	57	54	53	50	56	53	53	52	-	-
30	45	34			50	49	52	-	52	50	51	48	56	51	57	53	53	52	56	53	53	51	-	-
31	46	37			51	49			52	49			54	51	57	53			57	54			-	-
MAX	50		50								54		56		57			57		57				
MIN	34		35								48		48		48			50		48				

-No Data.

YEAR 1952-57

Table 5c. Monthly Maximum and Minimum Water Temperatures at Redding, 1952-57^{1/ 2/}

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max																						
1952	48.4	44.6	48	44.1	49.3	45.7	48.5	47.3	51.1	47.4	50.1	48.3	51.1	49.4	53	49.7	52.2	50.6	53.7	51.7	53.1	51.3	48.5	47.8	
1953	47.6	46.4	47.4	45	54.4	44.9	48.9	45.9	49.2	46.6	50.3	47.6	51.7	48.5	52.7	50.1	53.9	51.4	53.8	51.8	53.3	52.2	51.5	48.4	
1954	49.8	48.3	49	47.4	51.3	46.6	50	47.3	50.5	47.8	50.8	48.4	51.8	49.6	52.2	50.1	53.5	51.5	54.6	52.8	54	52.9	51.5	50.8	
1955	-	-	48.9	47.3	48.7	46.4	47.7	45.9	49.4	47.4	49.8	47.9	50.3	48.8	51.4	49.9	53.2	51.6	54.9	53.9	54.2	53.2	50.9	50.1	
1956	49	48.3	46.5	45.5	46.5	44.9	48.9	46	49	47	49.3	47.5	49.3	45.7	50.1	48.9	51.2	50.1	50.9	50	50.8	49.9	50	49.2	
1957	47.4	46.3	47.2	45.7	47.8	46.4	49.3	46.9	49.5	47.8															

-No Data.

1/ Unknown instrument and location.

2/ From USFWS, 1952.

YEAR 1987

Table 5d. Periodic Afternoon and Morning Water Temperatures at Cypress Bridge in Redding, 1987-89^{1/ 2/}

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM								
1								56.5	54.9	59.9	57.9	- -								
2								56.3	55.2	-	58.1	54.7 53.4								
3							56.1	-	56.1	54.5	- -	55 53.2								
4							55.8	-	54.5	-	-	55.8 53.4								
5							56.3	-	-	60.3	58.3	54.9 53.6								
6							56.3	-	-	59.7	57.6	54.7 54.5								
7							53.1	51.6	56.7	-	58.6	57.2 55.2 54.5								
8							53.2	-	-	54.1	58.5	56.8 - -								
9							-	-	54.9	-	57.9	56.5 55.6 54.1								
10							-	-	58.1	54.3	-	56 55.2 54								
11							-	-	57	-	55	-	55.9 55.2 53.8							
12							-	-	57.2	-	-	-	54.9 53.8							
13							-	-	57.2	-	-	-	57.4 55.4 - 54.3							
14							53.1	-	58.1	-	-	57	57 55.2 - -							
15							54	-	-	-	57	57	54.9 - -							
16							53.6	-	-	-	56.8	56.5	54.5 53.6							
17							52.2	-	57.2	54.9	-	57	- -	54.5 53.8						
18							-	-	57.4	55.4	-	57.2	-	55.4 55.4 54.1						
19							-	-	60.3	-	-	-	-	55.6 55.4 54.1						
20							-	-	59	-	-	-	55	53.4 54.5 54.3						
21							-	-	58.6	57.2	-	58.1	54.5 53.4	- -						
22							-	-	53.8	-	-	-	58.1	54.3 53.6 - -						
23							-	-	54.1	-	-	-	58.3	-	53.6 55.2 54.1					
24							-	-	54.3	-	60.8	-	58.1	-	-	-	54.1			
25							-	-	-	57.9	-	-	-	-	-	-	-			
26							52.9	-	-	58.5	-	-	-	55.9	53.6	-	-	-		
27							-	-	54.5	-	-	55.4	-	-	55.4	53.6	-	-		
28							-	-	-	-	57.6	-	-	54.3	53.8	-	-	-		
29							-	-	53.2	-	54.5	-	-	-	57.9	52	52	-	-	
30							-	-	-	54.9	-	57.2	-	-	57.9	-	52	-	-	
31							-	-	-	55.4	-	56.3	-	-	-	-	-	-	-	-

MAX

MIN.

-No Data.

1/ Handheld temperature reading taken with ASTM thermometer (river mile 295).

2/ Unpublished data collected by DFG, Region 1.

YEAR 1988

Table 5d. Periodic Afternoon and Morning Water Temperatures at Cypress Bridge in Redding 1987-89, (Continued)

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM
1								- 55.4				
2								56.1 55.2				
3								56.1 55.2				
4								- 55.4				
5								- -				
6								- -				
7								57.4 -				
8								57.4 55.8				
9								58.3 55.9				
10								57.9 56.5				
11								58.1 56.3				
12								58.6 56.5				
13								- -				
14								- -				
15								58.5 56.5				
16								59.2 57.2				
17								59.9 57.9				
18								59.9 58.1				
19								60.3 57.9				
20							57.4 55.4	- -				
21							57.4 55.4	- -				
22							57.2 55.6	59.9 58.3				
23							56.7 54.5	- 58.1				
24							56.3 54.5	- -				
25							56.3 54.5	- -				
26							57 54.5	- -				
27							57.2 55.2	- -				
28							56.8 55.2	- -				
29							56.7 54.7	- -				
30							56.3 54.7	59.5 57.4				
31							- 54.5	- 57.4				

MAX

MIN.

-No Data..

YEAR 1989

Table 5d. Periodic Afternoon and Morning Water Temperatures at Cypress Bridge in Redding 1987-89, (Continued)

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM		
1								53.8	52.7	-	54.1	-	-	55.4
2								54.3	52.5	-	-	57.2	-	57.4
3								54.5	52.7	-	-	56.8	54.5	56.3
4								54.8	52.9	-	-	57.4	54	-
5								-	-	55.6	54	55.6	53.8	-
6								-	-	-	54	57	54.1	-
7								54.5	53.1	55.4	53.8	-	-	-
8								55.4	50.4	55.6	53.8	-	-	-
9								55.6	53.8	-	-	-	-	-
10								53.6	51.8	55.6	53.8	-	-	58.5
11								53.1	51.7	55.6	53.8	55.4	54.3	58.6
12								53.4	51.5	-	-	56.5	54.1	58.5
13								53.4	51.7	-	-	55.6	53.8	58.5
14								52.9	50.9	55.6	53.8	55.6	53.8	-
15								53.1	-	55.4	54.5	56.1	53.8	-
16								53.6	52	56.1	54.5	-	-	57.2
17								54	51.8	56.1	53.8	-	-	56.8
18								53.9	52.2	55.8	53.2	-	55	56.5
19								-	51.9	-	-	58.6	54.9	56.1
20								53.6	51.9	-	-	58.3	55.6	54.9
21								53.4	51.8	56.5	54.5	-	55.9	-
22								-	-	55.8	54.7	59	56.5	-
23								-	-	56.1	53.8	-	-	55.2
24								53.4	51.9	56.5	53.8	-	-	55.2
25								53.6	51.8	55.8	53.4	57.6	55.4	57.2
26								53.6	52.2	-	-	56.8	55.4	56.1
27								-	-	-	-	57.4	55	-
28								-	-	56.8	54.5	-	54.7	-
29								-	-	56.1	55	-	-	-
30								-	-	56.1	53.6	-	-	57.2
31								53.6	52.3	55.4	53.8	-	-	57
														54.9

MAX
MIN.
-No Data

YEAR 1976

Table 6a. Daily Maximum and Minimum Water Temperatures near Redding, 1976-77^{1/ 2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX																									59.5
MIN																									52
-No Data																									

1/ Ryan thermograph located at Riverview Country Club (river mile 292.4) on east bank.

2/ Unpublished DFG, Region 1 data.

YEAR 1977

Table 6a. Daily Maximum and Minimum Water Temperatures near Redding, 1976-77, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min									
1									58	-	59.5	58.5	67.5	65	71	66	66.5	62	-	-					
2									58.5	55	61.5	60	67.5	65	71	65.5	67	62	-	-					
3									58.5	56	62	60	68	65	71	65.5	67.5	62	59.5	-					
4									58	56	62.5	59.5	68	65	70	65.5	67.5	62	59	57					
5									58	56	62.5	59.5	68	65	70	65	66.5	62	58.5	57					
6									58	57	63	59.5	68	64	69.5	65	66	62	58.5	56.5					
7									58	56	63	60	67.5	64	70	65	65.5	61.5	58	55.5					
8									58	56	63	60	67.5	64.5	71	65.5	65.5	60.5	57.5	55.5					
9									58	57	62	60	68	64	71.5	66.5	66	61	57.5	55					
10									-	-	62	60	68	65	71	66.5	65.5	60	57	55					
11									-	-	63.5	60.5	68.5	65	71.5	67	65	60	58	55					
12									-	-	63.5	60.5	68	65	71.5	66	66	60.5	56	55.5					
13									-	-	63	60.5	67.5	65	70	66	65.5	60.5	57	54					
14									-	-	64	61	68	64.5	70	66	65.5	60.5	57.5	55					
15									60	56	64	61	68	64.5	-	66	65	60	56.5	54.5					
16									-	-	64	61.5	67.5	64.5	65	64	64.5	60	57	54.5					
17									-	-	65	61	67.5	64.5	-	64	64.5	60	57	53					
18									-	-	64.5	61.5	67.5	64.5	-	-	64.5	59.5							
19									-	-	64.5	61	67.5	64.5	-	-	-	-							
20									-	-	66	61	68	65	63	61	-	-							
21									-	-	66	61.5	68	65	-	-	62.5	60							
22									-	57	65	61.5	68	65	66	62.5	62	58							
23									-	-	65	61.5	68	64	65	62	60	59							
24									-	-	65	61.5	66	64	66.5	62	61	59							
25									-	-	65	61.5	66	64	67	61.5	60.5	58							
26									-	-	65	62	67.5	64.5	66.5	62	61	58							
27									-	-	66	63	68.5	65	64.5	62.5	59	58							
28									-	-	67	63.5	69.5	65.5	63.5	62.5	*	58							
29									-	-	68	63.5	69.5	66	65	62	-	-							
30									-	57.5	68	64	69.5	66.5	66	62	-	-							
31											68	64.5	70.5	66.5	-	-	-	-							
MAX													68		70.5										
MIN													58.5		64										
-No Data																									

YEAR 1968

Table 7a. Daily Maximum and Minimum Water Temperatures above Clear Creek, 1968-70^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min		
1					49	48	50	49	49.5	48.5	50	49	52	51	55	54	56	56	54	53						
2					49	48	48.5	48.5	49.5	48.5	50	49.5	53	52	55	54	56	56	53	53						
3					49.5	48	49.5	48	50	48	51	49	52	52	55	54	56	56	53	53						
4					50	48	50	48	49.5	48	51	49.5	52	51.5	55.5	54.5	56	56	53	53						
5					50	48	49	48.5	49.5	48.5	51	49.5	52	51.5	55.5	54.5	56	56	53	53						
6					49	48	49	48	49.5	48	51	50	52	51.5	55.5	54.5	56	56	53	53						
7					50	48	50	48	50	48	50.5	50	52.5	52	55	55	56	55	53	53						
8					49	48	49	48	50	48.5	50	50	52.5	52	55	54	56	55	53	53						
9					49.5	47.5	49	48	49	48	50	48.5	50.5	50	53	52	55	54	56	56	53	53				
10					49	48	49.5	48	50	48.5	49	48	50.5	50	53	52	55	54	55.5	55.5	52	52				
11					50	48	49.5	48.5	50	48	50	48.5	51	50	53	52	55.5	55.5	55.5	55.5	52	52				
12					49	47.5	50	49	50	48	50	48	51	50	53	52	56	55	55.5	55.5	51	51				
13					49	47	49	48.5	50	49	50	48	51.5	50	53	52	55.5	55.5	55.5	55.5	51	51				
14					49	48	49	48.5	50	49	50	49	51	50	53	52	56	55.5	55	54	50	50				
15					48.5	47.5	49.5	48	50	48	50	49	51	50	53.5	52	56	55.5	55	54	50	50				
16					49.5	48	49.5	48.5	49.5	48	50	49	51.5	50	53	52	56	55	55	55	50	50				
17					48.5	47.5	49	48.5	49.5	48	50	49	51	50	53	52	56	55	55	55	50	50				
18					49	47.5	49.5	48	50	48	50	49	52	50	53.5	52	56	55	55	55	50	50				
19					49.5	48	48.5	48	50	48	50	49	51.5	50.5	54	52	56	55	55	55	50	50				
20					49	48	49.5	48	50	48	50	49	50.5	50.5	54	53	56	55	55	55	50	50				
21					49.5	48	49.5	48	50	48	50	49	51	50	53.5	52	56	55	55	55	50	49				
22					49.5	48	50	48	50	48	50	49	52	50	54	52	56	56	55	55	49	48				
23					49.5	47.5	50	48	50	48	50	49	52	50.5	53.5	52.5	56	56	55	54	48	47				
24					49	48	49	48.5	50	48	50	49	52	50.5	54	53	56	56	54.5	54	48	46				
25					49	48	50	48	50	49	50	49	52	50.5	54	53.5	56	56	54.5	54	47	46.5				
26					49	48	50	48	49.5	48.5	50	49	51	51	54	53	56	56	54	53.5	48	47				
27					49	47	50	48	49.5	48	50	49	52	51	53.5	53	56	56	54	53.5	47.5	47				
28					49	48.5	50	48	50	48	50	49	52	50.5	54	53	56	56	54	53.5	47	46				
29					49	48	50	48	50	48.5	49.5	49	52	51	54	53	56	56	54	54	47.5	47				
30					49	48	50	48	50	48	50	49	52	51	54	54	56	56	54	54	47.5	47				
31									50	49			49	49					56	56		47.5	47			
MAX									50		50		50		52		54		56		56		56			
MIN									48		48		48		49		51		54		54		53.5		46	

1/ Palmer thermograph located about 2½ miles north of the mouth of Clear Creek on the east bank.

2/ Unpublished DWR, Northern District Data.

YEAR 1969

Table 7a. Daily Maximum and Minimum Water Temperatures above Clear Creek, 1968-70, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min																							
1	47.5	47	45.5	45	44.5	44	46	45	44.5	44	48	46	48	46.5	51.5	50.5	52	51.5	53	52.5	54	53.5	54.5	53.5	
2	47.5	47	45	44.5	44	44	44.5	44.5	46	44	47.5	46	48	46	51.5	50.5	52	51.5	53.5	53	54.5	54	54	53.5	
3	47.5	46.5	45.5	44.5	44.5	44	46	44.5	46	44	48	46	48.5	46.5	51	50	52.5	51.5	53.5	53	54.5	54.5	54	54	
4	47.5	47	45.5	45	44	43.5	46	44	45.5	44	48	46	48	46.5	51	50.5	53	51.5	53.5	52.5	55	54.5	54	53	
5	47.5	46.5	45	44	44	43.5	44.5	44	46	44	48	46	48	46.5	52	50.5	53	52.5	53.5	53	55	54.5	54	54	
6	47.5	47	44.5	44	44.5	43.5	46	44.5	45.5	44	48	46.5	48	46.5	51.5	50.5	53	52	53.5	52.5	55	54.5	54	54	
7	47.5	46.5	44.5	44	44	43.5	46	44	46	44.5	48	46.5	48	46.5	51.5	50.5	52.5	52	53	53	55	54.5	54	53.5	
8	47	46	44.5	44	44	43	46.5	44	46	45	47	46.5	48	46.5	51.5	50.5	53	52	53.5	53	55	54.5	54	54	
9	46	46	44.5	44	44	43.5	46	45	46	45	47	46.5	48	47	52	50.5	53	52	53.5	53	54.5	54	54	54	
10	46	46	44.5	44	44	43	46.5	45	46	45	47	46.5	48	47	51.5	50.5	53	52	53.5	53	55	54.5	54	54	
11	46	44	44	44	44	43.5	46	44	46	45	47.5	46.5	48	47.5	51.5	50.5	53	52.5	53.5	52.5	55	54	54	53	
12	44	43	44	44	44.5	44	45.5	44.5	46	45	48.5	46.5	48.5	47.5	52	50.5	53.5	52.5	53.5	52.5	55	54	53	52.5	
13	46	44	44	44	44.5	43.5	46	44.5	45.5	44.5	49	47	48.5	47.5	52	51	53.5	52.5	54	53	54.5	54	53	52.5	
14	46	45	44	44	44	43.5	46.5	44.5	45.5	44.5	48.5	47	49	47.5	51.5	51	53.5	52.5	54	53.5	54.5	54	53.5	53	
15	45	44.5	44	44	45	43.5	47	44	46.5	44	49	47	49	47.5	51.5	51	53.5	53	53.5	53.5	55	54.5	53	53	
16	45.5	45	44	44	44.5	43.5	47	44	45	44	49	47	49	47	52	51	53	52.5	54	54	55	54.5	53	53	
17	45	44.5	44	44	44	44	46.5	44.5	45	44	49	47	49	47.5	52	51	53	52.5	54	53.5	54.5	54	53	53	
18	45.5	44.5	44	44	45	43	47	45	46	45	48.5	47	48.5	47.5	52	51.5	53	52.5	54	53.5	54.5	54	53	52.5	
19	45	44.5	44	44	44	43	47	45.5	47	45	48	47	48	47.5	52	51.5	53	52.5	54	53.5	54.5	54	52.5	52.5	
20	46	45	44	44	44	44	47	45.5	47	45	48	47	48	47.5	51.5	51	53	52.5	54	53.5	54.5	54	52.5	52	
21	46.5	46	44	44	44	44	47	45.5	47	45	48	47	48	47	51.5	51	53.5	52.5	54	54	54.5	54	53	52.5	
22	46.5	46	44	44	45	44	47	45	46.5	44.5	48.5	47	48	47	51.5	51	53.5	52.5	54.5	54	54.5	54	53	52	
23	46.5	46.5	44	44	45	44	46	45	46.5	46	48.5	47	48.5	47.5	52	51.5	53	52.5	54.5	54	54.5	54	53.5	53	
24	46.5	46.5	44	43.5	45.5	44	46	45	47	46	48.5	47	48.5	47.5	52.5	51.5	53.5	52.5	54.5	54.5	54.5	54	53		
25	46.5	46.5	44	44	45.5	44	45	44.5	48	46	48	47	49	47.5	52	51.5	53	52.5	54.5	54.5	54.5	54	54	54	
26	46	46	44	44	45.5	44	46	44.5	48	46.5	48	47	49	47.5	52	51.5	53	52.5	54.5	54.5	54.5	54	53.5	53	
27	46	46	44	43.5	46	44	45.5	44.5	48	46	48.5	47	50	48	52	51.5	53.5	52.5	54.5	54.5	54.5	54	53.5	53	
28	46	46	44	44	46	44	46.5	45	48	46	48.5	47	50	49	52	51.5	53	52.5	54.5	54	54.5	53.5	53	52.5	
29	46	46			45.5	44	46	44	47	46	48	46.5	51	50	52	51.5	53	52.5	54	53.5	54	53.5	53	52.5	
30	46	45.5			46	44	46	44	48	46	48	46.5	51.5	50.5	52	51.5	53	52	54	54	54.5	53.5	53	52	
31	45.5	45.5			46	44			48	46			51.5	50.5	52	51			54	54			52.5	51.5	
MAX		47.5		45.5		46		47		48		49		51.5		52.5		53.5		54.5		55		54.5	
MIN		43		43.5		43		44		44		46		46		50		51.5		52.5		53.5		51.5	

YEAR 1970

Table 7a. Daily Maximum and Minimum Water Temperatures above Clear Creek, 1968-70, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	52	51	50	49.5	48	48	50	48.5	50	49	52.5	51	51.5	49.5	53.5	52	53.5	52	54	53.5	54	53.5		
	52	51	50	49.5	48	48	50	48.5	50	49	52.5	51.5	51	50	53.5	52	53.5	52	54	54	54	54	54	
	51.5	51	50	49.5	48	48	49.5	48	50	49.5	52.5	51.5	51	50	53.5	52	53.5	52	54	54	54	54	54	
2	51.5	50.5	50	49.5	48	48	50	48.5	50.5	49.5	53	51	51	50	54	52	54	52	54.5	54	54	54	54	
	51	50.5	49.5	49.5	48	48	50	48.5	50.5	50	53	51.5	51	50	54	52	54	52	54.5	54	54.5	54	54	
	51	50.5	49.5	49.5	48	48	50	49	50.5	49	53	51.5	51	50	54	52	54	52	54.5	54	54.5	54	54	
	51	50.5	49.5	49	48	48	50	49	50.5	49	53	51.5	51	50	54	52	54	52	54.5	54	54.5	54	54	
	51.5	50.5	49.5	48.5	48	48	50.5	49	50.5	48.5	53	51.5	51.5	50	54	52	53.5	52	54	53.5				
	50.5	50.5	49	48.5	48.5	48	49.5	49.5	50.5	49.5	53	51.5	51.5	50	53.5	52	53.5	52	54	53.5				
	50.5	50	49	48	48	48	49.5	49.5	50.5	49.5	53	51.5	50.5	50	53.5	52	53	52	54	54				
	50	50	48.5	48	48.5	48	50	49	50.5	49.5	52.5	51.5	50.5	49.5	53	52	53	52	54	53.5				
	50	50	48.5	48	48	48	50	49.5	51.5	49.5	52.5	51.5	51	49.5	53	52	53	52	54	54				
	50	49.5	48	48	48	48	50	49	51.5	49.5	53	51	51	50	54	52.5	53.5	52.5	54	54				
	50	49.5	48	48	48	48	47.5	50	49.5	49.5	51	49.5	51.5	50	51.5	50	53	52	54	53.5				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	52.5	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5	52	50	52	50	52.5	51	54	53	54				
	50	49.5	48	48	48	48	47.5	50	49	51	49.5</													

YEAR 1983

Table 7b. Daily Maximum and Minimum Water Temperatures above Clear Creek, 1983-84^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									49	49	52	51	54	53	52	52	53	52	52	52	52	52	52	52	
2									50	49	52	51	54	53	53	52	54	52	53	52	52	52	52	51	
3									50	49	53	52	54	53	53	52	54	52	53	52	52	52	52	51	
4									50	49	53	52	54	53	53	52	54	52	53	52	51	51	51	51	
5									50	49	53	52	54	53	53	52	54	52	53	52	51	51	51	51	
6							49	48	50	50	53	52	54	53	54	52	54	53	52	52	51	51	50		
7							48	48	50	50	53	52	54	53	54	52	54	53	53	52	50	50			
8							49	48	50	50	53	52	54	54	54	53	54	53	52	52	50	50			
9							49	48	50	50	53	52	54	54	55	53	54	53	52	52	50	50			
10							49	48	50	49	54	52	54	53	55	53	54	53	53	52	50	50			
11							49	48	50	49	53	52	54	53	55	53	54	53	53	52	50	49			
12							48	48	50	49	53	52	54	54	55	53	54	53	53	53	50	49			
13							48	48	50	49	53	52	54	54	55	54	54	53	53	53	50	50			
14							48	48	50	50	54	52	54	53	55	54	54	53	53	53	50	49			
15							50	48	51	50	54	52	54	54	55	54	54	53	54	53	49	49			
16							52	49	51	50	54	52	55	54	55	54	54	54	53	53	49	48			
17							52	49	53	51	54	52	53	52	54	54	54	54	53	53	48	48			
18							51	50	52	51	54	52	52	52	55	54	54	54	53	53	49	48			
19							52	50	53	51	54	52	52	52	56	53	54	54	53	53	49	48			
20							51	49	52	51	54	52	52	51	55	54	54	52	53	53	-	48			
21							50	49	52	51	54	53	52	52	54	53	54	52	53	53	-	-			
22							50	49	52	51	54	53	53	52	53	53	54	52	54	53	50	49			
23							50	49	52	51	54	53	52	52	54	53	54	52	53	52	49	48			
24							50	50	52	51	54	53	53	52	54	53	54	52	52	52	48	48			
25							50	49	52	52	54	53	53	52	54	52	53	52	52	52	48	48			
26							50	49	52	52	54	53	53	52	54	52	53	52	53	52	48	48			
27							-	-	52	52	54	53	52	52	52	54	52	53	52	53	52	48	47		
28							-	-	52	51	54	53	52	52	52	54	52	53	52	52	47	47			
29							-	-	52	51	54	53	53	52	54	52	52	52	52	52	47	47			
30							-	-	52	51	54	53	53	52	52	52	52	52	52	52	47	47			
31							-	-			54	53	52	52	52		52	52		47	46				
MAX											53		54		55		56		54		54				
MIN											49		51		51		52		52		52				

-No Data

1/ Palmer thermograph located about $\frac{1}{4}$ mile above mouth of Clear Creek on east bank.

2/ Unpublished DWR, Northern District data.

YEAR 1984

Table 7b. Daily Maximum and Minimum Water Temperatures above Clear Creek, 1983-84, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	47	46	44	44	45	44	49	48	46	46	51	49													
2	47	46	44	44	46	44	50	47	48	46	51	49													
3	47	46	45	44	46	44	50	48	48	46	51	49													
4	47	46	45	44	46	44	50	48	49	46	50	49													
5	46	46	45	44	46	44	50	48	49	46	50	49													
6	46	46	45	44	46	44	51	48	49	47	49	49													
7	46	46	45	44	46	45	50	48	49	47	50	49													
8	46	46	45	44	46	45	50	48	50	48	51	49													
9	46	46	45	44	46	45	48	48	50	48	52	49													
10	46	46	45	44	47	45	50	48	50	48	51	49													
11	46	45	44	44	46	45	50	48	50	48	51	49													
12	45	45	44	44	46	45	50	48	50	48	51	49													
13	45	45	44	44	46	46	50	48	50	48	52	49													
14	45	45	44	44	49	46	51	48	50	48	52	49													
15	45	45	44	44	46	46	52	48	50	48	52	50													
16	45	44	45	44	46	45	50	49	50	48	52	49													
17	45	44	44	44	45	45	51	48	50	48	51	49													
18	45	44	44	44	46	45	50	48	49	47	52	50													
19	44	44	45	44	46	45	51	48	49	47	51	49													
20	44	44	44	44	46	46	48	47	49	48	52	49													
21	44	44	45	44	46	45	49	46	50	48		50													
22	44	44	45	44	46	45	49	46	50	48															
23	44	44	45	44	46	46	49	46	50	48															
24	44	44	45	44	46	46	50	46	50	48															
25	44	44	45	44	46	46	48	46	50	48															
26	44	44	45	44	46	46	48	46	50	48															
27	44	44	45	44	46	46	48	46	51	48															
28	44	44	45	44	50	48	48	46	51	48															
29	44	44	45	44	49	48	48	46	50	48															
30	44	44			48	48	47	46	51	48															
31	44	44			48	48			52	49															
MAX		47		45		50		52		52															
MIN		44		44		44		46		46															

YEAR 1950

Table 8a. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1950-51^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1					55	48	51	45	55	49	52	48	52	47	53	48	53	45	54	51	53	48			
2					56	49	49	45	55	50	52	48	52	46	53	48	53	45	55	49	50	46			
3					55	48	52	42	55	47	52	48	53	47	52	47	52	47	54	48	47	46			
4					55	48	52	43	55	47	52	47	51	48	53	48	54	48	54	48	51	47			
5					49	48	54	45	54	47	51	46	52	45	53	47	54	50	53	47	52	47			
6					51	45	53	45	51	46	52	46	52	45	53	47	54	47	53	49	52	50			
7					48	45	54	45	52	44	51	47	52	45	52	48	55	48	53	48	53	51			
8					48	43	55	45	53	45	52	46	53	46	53	49	54	48	54	49	54	53			
9					50	39	55	46	53	46	52	46	53	46	52	48	54	49	52	49	54	50			
10					51	45	55	48	52	47	51	47	53	46	54	48	54	49	52	46	53	49			
11					52	44	55	47	50	46	52	45	53	47	54	48	54	49	52	45	53	48			
12					50	47	54	46	54	45	53	46	53	47	54	48	54	49	51	46	55	51			
13					53	46	55	46	54	46	52	47	53	47	54	48	55	48	-	47	53	50			
14					53	43	55	46	54	47	52	47	53	47	54	48	54	49	-	-	54	52			
15					54	46	55	47	54	47	52	47	52	46	55	48	53	48	-	-	55	51			
16					54	47	54	46	52	43	52	47	52	46	53	48	51	49	-	-	54	50			
17					55	47	54	45	54	47	52	47	53	47	53	48	53	50	-	-	54	50			
18					55	49	54	46	55	46	53	46	53	47	54	48	54	48	-	-	54	48			
19					56	49	54	47	55	48	53	46	52	47	54	48	54	48	-	-	54	52			
20					57	50	55	47	55	48	53	46	52	47	55	49	55	49	-	51	55	50			
21					57	52	55	49	55	49	52	46	52	47	55	49	54	49	54	51	54	50			
22					57	50	55	47	54	49	52	45	52	47	55	49	54	48	55	49	53	50			
23		49			55	50	54	47	54	48	51	45	53	47	55	48	52	48	54	49	52	49			
24		50	45	56	49	54	47	53	47	52	46	53	49	55	48	53	49	54	49	51	48				
25		48	43	56	48	55	47	53	46	52	46	53	48	54	49	50	49	54	49	51	48				
26		48	44	56	49	55	47	52	46	53	46	53	48	54	48	52	49	54	49	50	48				
27		51	42	56	49	54	47	52	45	53	47	53	47	55	50	51	49	54	51	51	48				
28		51	42	54	46	55	48	52	45	53	47	53	47	55	50	52	50	54	49	51	48				
29		52	44	54	46	55	48	52	47	53	47	53	47	53	48	52	50	53	50	53	48				
30		54	45	52	45	54	49	51	47	52	48	53	47	53	46	51	50	53	50	51	48				
31		54	47		55	49			52	47	53	48				52	48			50	46				
MAX					57		55		55		53		53		55		55				55				
MIN					39		42		43		45		45		46		45				46				

-No Data

1/ Type of thermograph and exact location unknown.

2/ From USFWS, 1952.

YEAR 1951

Table 8a. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1950-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	51	45	49	41	49	43	50	41	52	46	56	49	56	49	56	50	56	49	55	53	58	51	52	50
2	50	47	47	45	48	40	52	42	52	47	56	50	56	49	56	50	56	50	57	52	57	51	52	48
3	50	48	47	46	46	44	52	44	50	47	55	48	56	49	56	50	56	50	57	51	57	50	50	47
4	50	48	48	46	46	44	52	45	51	47	57	48	55	49	56	49	56	50	57	52	58	52	49	47
5	52	47	50	43	47	44	53	45	52	47	56	49	56	50	56	49	56	50	57	51	57	51	50	45
6	51	46	52	47	47	44	54	46	53	48	56	49	56	48	55	49	57	51	57	51	57	51	50	45
7	50	45	50	48	49	44	54	46	52	48	56	48	56	48	55	49	57	50	57	51	56	51	49	44
8	49	47	51	47	48	45	54	45	57	48	55	48	56	49	56	49	57	50	58	51	57	53	48	44
9	50	48	50	47	49	44	57	46	57	49	55	48	55	49	56	50	57	50	58	51	56	53	48	41
10	49	47	49	47	50	42	57	51	57	50	56	48	56	50	55	50	58	50	56	52	55	52	49	42
11	50	47	50	48	51	41	57	51	54	49	57	49	56	50	55	49	58	53	58	52	57	54	52	47
12	50	45	50	46	51	43	57	49	53	47	57	49	56	50	56	49	57	53	58	52	55	51	50	42
13	50	45	50	45	53	45	56	49	55	47	57	51	55	49	56	49	58	51	58	53	56	52	50	41
14	49	45	50	47	53	46	57	49	57	48	57	51	55	48	55	49	57	51	59	52	57	51	50	41
15	49	44	50	46	52	47	57	49	58	50	57	51	55	49	56	50	58	51	59	54	56	51	49	41
16	49	46	50	45	-	46	54	48	58	51	57	50	55	49	56	50	58	51	59	54	56	51	49	41
17	49	48	48	45	-	45	53	48	58	51	56	50	55	50	56	50	58	52	58	51	54	51	48	45
18	50	46	50	43	-	46	55	48	58	49	57	50	55	50	55	50	58	52	57	51	53	49	46	45
19	50	45	50	45	50	45	56	47	58	49	56	48	55	50	56	50	59	52	58	51	55	50	48	43
20	48	44	48	46	50	44	56	47	58	50	57	50	55	50	56	52	59	53	57	51	52	48	42	
21	46	42	49	46	50	44	55	47	58	51	56	50	55	49	56	51	58	52	56	51	53	48	47	38
22	47	44	49	44	50	44	55	47	58	50	56	50	55	49	56	51	58	51	57	51	53	47	48	44
23	51	45	50	45	51	44	56	46	57	50	56	49	56	49	56	51	58	51	57	51	53	47	48	44
24	50	46	49	43	51	43	50	47	58	49	56	49	56	50	56	50	58	51	54	51	51	44	48	44
25	50	46	49	44	49	43	55	47	58	50	56	50	56	50	56	50	58	51	57	51	50	49	47	44
26	52	47	49	44	50	43	52	47	57	50	57	49	56	50	56	50	59	51	56	51	50	49	49	46
27	50	47	50	43	50	45	52	48	57	51	57	49	56	50	56	50	58	51	58	52	51	49	49	47
28	49	45	48	45	49	43	52	47	57	51	57	50	56	49	56	50	56	52	58	52	52	51	49	46
29	49	44	-	-	49	44	52	45	57	50	56	50	56	50	55	50	56	52	58	52	53	52	50	47
30	48	41	-	-	49	43	53	45	57	50	56	49	55	50	56	50	55	53	58	52	53	52	48	45
31	48	40	-	-	50	42	-	-	56	50	-	-	56	50	56	49	-	57	51	-	-	47	45	
MAX	52	52	-	-	57	-	58	-	57	-	56	-	56	-	59	-	59	-	58	-	52	-	-	
MIN	40	41	-	-	41	-	46	-	48	-	48	-	49	-	49	-	51	-	44	-	41	-	-	

-No Data.

YEAR 1952-55

Table 8b. Monthly Maximum and Minimum Water Temperatures below Clear Creek, 1952-55^{1/ 2/}

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1952	46.7	43.1	47.9	42.9	48.1	41.8	-	-	-	-	52.1	49.9	52.8	50.5	54	52.7	54.9	53.3	56.9	55.5	54.5	53.1	50.7	49.3
1953	50.1	48.7	49.7	46.9	52	49.1	55.8	52.2	49	48.7	55	52.4	57.4	54.3	54.3	52	56.2	53.7	56	54.2	54	52.6	51.7	50.5
1954	50.6	49.5	49.5	46.6	50.8	46.1	51.3	45.5	54	45.5	53.3	46.7	55.5	57.2	56.3	47.3	57.2	51.9	56	50.4	54.2	51.9	51.1	48.7
1955	48.4	45.3	48.9	43.9	51.3	46.1																		

-No Data.

1/ Type of thermograph and exact location unknown.

2/ From USFWS, 1952.

YEAR 1986

Table 8c. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1986-89^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1							52	52	53	52	-	-	-	-	52	52	54	54	53	53	54	54	54	54	
2							52	52	52	52	-	-	-	-	52	52	54	54	53	53	54	54	54	54	
3							52	52	52	51	-	-	-	-	52	52	54	54	53	53	54	54	54	54	
4							52	52	52	51	-	-	-	-	52	52	54	54	53	53	54	54	54	54	
5							52	52	51	51	-	-	-	-	53	52	54	54	53	53	54	54	53	53	
6							52	52	52	51	-	-	-	-	53	53	54	54	53	53	53	53	53	53	
7							52	52	52	51	-	-	-	-	53	53	54	54	53	53	53	53	53	53	
8							52	52	52	51	-	-	-	-	53	53	54	54	53	53	53	53	53	53	
9							52	52	51	51	-	-	-	-	53	53	54	54	-	-	53	53	53	53	
10							52	52	51	51	-	-	-	-	53	52	53	53	54	54	-	-	53	53	
11							52	52	51	51	-	-	-	-	53	52	53	53	54	54	54	54	53	53	
12							52	51	51	51	-	-	-	-	53	52	53	53	54	54	54	54	53	53	
13							51	51	51	51	-	-	-	-	53	52	53	53	54	54	54	54	53	53	
14							51	51	51	51	-	-	-	-	53	52	53	53	54	54	54	54	53	53	
15							52	52	51	51	52	51	-	-	53	52	53	53	54	54	54	54	54	54	
16							52	52	51	51	51	50	-	-	53	52	53	53	54	54	54	54	54	54	
17							52	52	51	51	51	50	-	-	53	52	53	53	54	54	54	54	53	53	
18							52	52	51	51	51	50	-	-	53	52	53	53	54	54	54	54	53	52	
19							52	52	51	51	51	50	-	-	53	52	53	53	54	54	54	54	54	52	
20							-	-	51	51	51	51	-	-	53	52	53	53	54	54	54	54	51	50	
21							-	-	51	51	51	51	-	-	53	52	54	53	54	54	54	54	50	50	
22							-	-	51	51	51	51	-	-	53	52	54	54	54	54	54	54	50	50	
23							-	-	51	51	51	51	-	-	53	52	54	54	54	54	54	54	50	50	
24							-	-	51	51	51	51	-	-	53	52	54	54	54	54	54	54	50	50	
25							52	52	51	51	51	51	-	-	53	52	54	54	54	54	54	54	50	50	
26							52	52	51	51	51	51	-	-	53	52	54	54	54	54	54	54	54	50	
27							52	52	51	51	51	51	-	-	53	52	54	54	54	54	54	54	54	-	
28							52	52	51	51	51	51	-	-	53	52	54	54	54	54	54	54	-	-	
29							52	52	53	51	51	51	-	-	52	52	54	54	53	53	54	54	-	-	
30							52	52	53	52	51	51	-	-	52	52	54	54	53	53	54	54	-	-	
31							52	52					-	-	52	52			53	53			-	-	
MAX									53		53						54		54						
MIN									51		50						52		53						

-No Data.

1/ Palmer thermograph located at river mile 286.7 on east bank April 1986 - March 1987, at river mile 284.8 on west bank April 1987 - March 1988, and at river mile 287.3 on west bank May 1988 - 1989.

2/ Unpublished DWR, Northern District data.

YEAR 1987

Table 8c. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	48	48	50	46	•54	50	51	48	53	51	52	51	55	54	55	54	58	57	52	52	52	52	
2	-	-	48	47	48	47	53	50	51	48	53	51	52	52	55	54	55	55	58	57	53	52	52	52	
3	-	-	48	47	48	47	53	49	52	48	52	51	52	52	55	54	55	54	58	57	54	52	53	52	
4	-	-	49	48	48	47	53	49	52	49	52	51	52	52	55	54	55	54	58	57	54	52	53	52	
5	-	-	-	-	48	47	52	49	52	49	52	50	52	52	55	54	55	54	58	57	54	53	53	52	
6	-	-	-	-	50	47	51	48	52	49	51	50	52	51	55	54	54	53	57	56	53	53	52	51	
7	-	-	-	-	48	46	53	49	52	49	51	50	52	51	55	54	54	53	57	55	54	53	53	51	
8	-	-	-	-	47	46	53	49	51	49	51	50	53	51	55	54	54	53	56	55	54	53	51	50	
9	-	-	48	47	50	46	53	49	50	49	51	50	53	52	55	54	53	53	56	55	54	53	51	50	
10	-	-	47	47	48	47	52	49	52	49	51	50	54	52	55	54	54	53	55	55	54	53	52	50	
11	-	-	48	47	48	47	51	49	53	50	51	50	54	53	55	54	55	54	56	55	53	52	50	48	
12	-	-	47	47	48	47	51	48	51	50	52	51	54	53	56	55	55	54	56	55	53	53	49	48	
13	-	-	-	-	49	48	51	49	52	50	51	50	54	53	56	55	56	55	56	55	54	53	48	47	
14	-	-	-	-	48	47	51	49	52	50	52	51	54	53	56	55	57	56	56	55	53	52	49	48	
15	-	-	-	-	49	47	51	49	53	51	52	51	54	53	56	55	57	56	56	55	53	52	49	48	
16	47	46	-	-	51	47	52	49	53	51	51	51	54	53	57	56	57	56	56	55	54	53	52	-	
17	48	47	-	-	50	48	50	49	53	51	52	51	54	54	57	56	57	56	56	55	53	52	50	49	
18	48	47	-	-	50	47	50	48	53	51	52	51	54	53	57	56	58	57	55	54	53	52	-	-	
19	48	48	*48	*46	50	47	51	48	53	51	52	51	54	53	57	56	58	57	55	54	54	53	-	-	
20	48	47	*48	*46	48	47	51	48	53	51	52	51	54	53	57	56	58	57	54	53	53	53	-	-	
21	48	48	*47	*46	47	46	50	48	53	51	52	51	53	53	57	56	58	57	54	53	53	53	-	-	
22	48	48	*49	*45	50	46	50	47	53	51	51	51	54	53	57	56	58	57	54	53	53	52	-	-	
23	48	48	*48	*45	48	47	50	47	53	51	51	51	54	53	58	57	58	57	53	53	53	52	-	-	
24	48	47	*47	*45	50	46	50	48	53	51	51	50	54	53	58	57	58	57	54	53	53	52	-	-	
25	47	47	*48	*44	51	47	50	48	53	51	51	51	54	54	57	57	57	56	54	53	52	51	-	-	
26	47	47	*48	*45	51	48	51	48	52	51	51	51	54	54	56	55	58	57	54	53	52	51	-	-	
27	47	47	*48	*45	-	-	50	48	53	51	51	51	54	54	55	54	58	57	54	53	52	51	-	-	
28	47	47	*49	*45	-	-	50	48	52	51	52	51	55	54	55	53	58	57	54	53	52	51	-	-	
29	48	47	-	-	50	49	53	51	52	51	55	54	55	54	58	57	53	52	52	51	-	-	-	-	
30	48	48	-	-	50	48	52	51	52	51	55	54	55	54	58	57	53	52	52	51	-	-	-	-	
31	48	48			54				52	51			55	54	55	55			52	51			-	-	
MAX							54		53		53		55		58		58		58		54				
MIN							47		48		50		51		54		53		51		51				

-No Data

*Diurnal fluctuation more than usual probe may have barely been in water.

•Reinstalled below I-5 bridge and above Anderson River Park.

YEAR 1988

Table 8c. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	46	45	48	46	-	-	-	-	51	50	54	52	57	55	-	-	62	60	57	55	55	53	
2	-	-	46	44	49	46	-	-	-	-	54	51	54	52	57	55	62	60	61	59	56	56	54	53	
3	-	-	47	45	48	46	-	-	-	-	53	52	54	52	57	55	62	60	61	59	56	55	55	54	
4	-	-	47	45	49	46	-	-	-	-	53	51	54	52	56	54	62	60	61	59	57	55	54	53	
5	-	-	47	45	48	47	-	-	-	-	53	51	54	52	56	54	62	60	61	59	56	55	54	54	
6	-	-	47	46	49	47	-	-	-	-	52	51	54	52	57	54	62	60	61	59	56	55	54	54	
7	-	-	48	46	49	46	-	-	-	-	51	51	54	52	57	54	62	60	61	59	56	55	54	53	
8	-	-	48	46	49	46	-	-	-	-	52	51	54	52	56	54	62	59	61	59	56	55	54	53	
9	-	-	49	47	49	46	-	-	-	-	52	51	55	53	57	54	62	60	60	58	55	54	54	53	
10	-	-	49	47	49	45	-	-	-	-	53	51	55	53	57	54	62	60	60	58	55	54	54	53	
11	-	-	49	47	48	45	-	-	-	-	54	51	55	53	-	-	62	59	60	58	55	54	54	53	
12	46	45	49	47	48	45	-	-	-	-	55	52	55	53	-	-	62	59	60	58	56	55	53	52	
13	47	46	48	47	49	45	-	-	-	-	54	52	55	54	-	-	62	59	58	57	56	55	53	52	
14	47	47	49	46	49	46	-	-	-	-	54	52	56	54	-	-	62	59	59	57	57	55	53	51	
15	47	46	49	47	49	45	-	-	-	-	54	52	56	54	-	-	63	60	59	56	57	55	52	51	
16	47	46	48	46	49	46	-	-	-	-	54	52	57	55	-	-	63	60	59	56	56	55	52	51	
17	46	45	48	46	49	46	-	-	-	-	54	53	57	55	-	-	63	60	59	56	57	55	52	51	
18	46	45	48	46	50	49	-	-	-	-	55	52	57	55	-	-	62	59	58	56	57	55	52	51	
19	46	44	49	46	50	50	-	-	-	-	54	52	57	55	-	-	61	59	58	55	56	55	51	51	
20	46	45	49	47	50	48	-	-	-	-	54	52	57	55	-	-	62	59	57	55	57	56	52	51	
21	47	45	49	47	-	-	-	-	-	-	53	52	57	55	-	-	62	59	58	55	56	56	51	51	
22	48	46	49	47	-	-	-	-	-	-	53	51	57	55	-	-	61	59	57	55	56	52	51	49	
23	48	46	49	47	-	-	-	-	-	54	52	53	51	57	54	-	-	61	58	57	54	55	52	50	49
24	48	46	49	46	-	-	-	-	-	53	51	54	51	56	54	-	-	61	58	57	54	54	53	49	48
25	48	46	48	46	-	-	-	-	-	53	51	53	51	56	54	-	-	61	58	57	55	53	52	49	49
26	48	46	48	46	-	-	-	-	-	53	51	53	51	57	54	-	-	61	58	56	54	54	52	49	48
27	48	47	48	46	-	-	-	-	-	53	51	53	51	57	54	-	-	61	59	57	55	54	52	49	48
28	48	47	48	47	-	-	-	-	-	52	51	54	51	57	55	-	-	62	59	56	54	55	53	49	48
29	47	46	47	46	-	-	-	-	-	52	50	53	51	57	54	-	-	61	59	57	55	55	53	49	48
30	47	46	-	-	-	-	-	-	-	52	50	54	51	57	54	-	-	62	59	57	55	55	53	49	48
31	46	45	-	-	-	-	-	-	-	52	50	-	-	57	54	-	-	57	55	-	-	49	48		
MAX		49									55		57				63		62		57		55		
MIN		45									50		52				58		55		52		47		

-No Data.

*New station location below Clear Creek at Tenney Sand & Gravel.

YEAR 1989

Table 8c. Daily Maximum and Minimum Water Temperatures below Clear Creek, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	48	48	47	46	46	50	49	52	48	52	49	52	49	-	-	56	53	-	-	59	56	55	54
2	49	48	47	46	48	46	50	49	50	48	52	49	52	50	-	-	56	53	-	-	59	56	55	54
3	49	48	47	46	47	45	53	48	51	48	52	49	52	50	-	-	56	53	-	-	59	57	55	54
4	49	48	46	44	45	45	54	49	52	48	52	50	52	50	-	-	56	53	-	-	59	57	55	54
5	48	48	45	43	45	45	54	50	51	48	51	50	52	50	-	-	56	54	-	-	59	57	55	54
6	48	47	45	43	46	45	54	50	50	48	51	49	53	50	-	-	56	53	-	-	59	57	54	53
7	48	47	45	44	48	46	55	50	51	47	52	50	54	51	-	-	55	53	-	-	59	57	54	53
8	48	47	46	44	49	48	55	51	50	47	52	50	54	51	-	-	56	54	-	-	59	57	53	53
9	47	47	45	45	50	49	56	51	48	47	52	50	54	51	-	-	56	54	-	-	58	57	53	52
10	48	47	45	45	49	49	55	51	48	47	52	50	54	51	-	-	56	54	-	-	58	57	52	51
11	48	46	47	45	52	49	55	51	51	47	52	50	54	51	-	-	56	54	-	-	58	57	52	51
12	48	47	47	45	51	48	54	51	52	47	52	50	54	51	-	-	56	54	-	-	58	56	53	51
13	48	47	47	45	51	48	55	51	50	47	52	50	-	51	-	-	56	54	-	-	58	56	53	51
14	48	47	47	45	51	47	54	51	50	47	52	50	-	-	-	-	56	53	-	-	57	56	53	52
15	48	47	47	45	51	48	54	50	50	47	51	50	-	-	-	-	56	54	-	-	57	56	53	52
16	48	47	48	46	51	49	55	51	50	47	52	50	-	-	-	-	-	54	-	-	58	56	53	51
17	48	47	47	46	50	48	55	51	51	47	52	50	-	-	-	-	-	-	-	-	58	56	52	51
18	49	47	46	46	49	48	54	50	53	48	52	50	-	-	-	-	-	-	-	-	58	56	52	51
19	49	47	48	46	53	49	55	50	53	47	52	50	-	-	-	-	-	-	-	-	59	58	57	56
20	49	47	47	46	53	49	55	50	51	48	52	50	-	-	-	-	-	-	-	-	58	57	56	51
21	49	47	47	46	52	50	52	50	51	48	52	49	-	-	-	-	57	-	-	-	57	56	56	51
22	49	48	47	46	52	50	51	49	51	48	53	50	-	-	-	-	55	54	-	-	57	56	56	50
23	48	47	48	46	51	50	50	49	49	47	54	50	-	-	-	-	56	53	-	-	57	56	55	51
24	48	46	47	45	52	50	50	48	49	47	53	50	-	-	-	-	56	53	-	-	57	56	55	50
25	48	46	46	45	52	50	49	48	50	47	52	50	-	-	-	-	56	53	-	-	58	56	55	54
26	48	47	47	45	50	49	52	48	51	47	52	50	-	-	-	-	56	53	-	-	57	56	55	54
27	48	47	47	45	50	49	53	48	52	48	52	49	-	-	-	-	56	53	-	-	58	56	55	54
28	48	47	47	45	50	48	53	49	51	48	50	49	-	-	-	-	57	54	-	-	58	56	55	50
29	49	47			51	48	52	49	51	48	50	49	-	-	-	-	57	54	-	-	58	56	55	50
30	49	48			50	48	50	49	52	48	51	49	-	-	-	-	56	53	-	-	58	56	55	50
31	48	47				52	49		52	48			-	-	-	-	56	53	-	-	58	56		50
MAX	49	48			53		56		53		54										59		55	
MIN	46	43			45		48		47		49										54		49	

-No Data..

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	18	1987	15.0	59.0	16.5	61.7	13.5	56.3
9	19	1987	15.0	59.0	17.0	62.6	14.0	57.2
9	20	1987	15.0	59.0	17.0	62.6	14.0	57.2
9	21	1987	15.5	59.9	17.0	62.6	14.0	57.2
9	22	1987	15.5	59.9	17.5	63.5	14.5	58.1
9	23	1987	15.5	59.9	17.0	62.6	14.5	58.1
9	24	1987	15.5	59.9	17.0	62.6	14.5	58.1
9	25	1987	15.0	59.0	16.5	61.7	14.5	58.1
9	26	1987	15.5	59.9	17.0	62.6	14.5	58.1
9	27	1987	15.5	59.9	17.0	62.6	14.5	58.1
9	28	1987	15.5	59.9	17.0	62.6	14.5	58.1
9	29	1987	15.0	59.0	16.5	61.7	14.0	57.2
9	30	1987	15.0	59.0	16.5	61.7	14.0	57.2
10	1	1987	15.0	59.0	16.5	61.7	14.0	57.2
10	2	1987	15.0	59.0	17.0	62.6	14.0	57.2
10	3	1987	15.0	59.0	16.5	61.7	14.0	57.2
10	4	1987	15.0	59.0	16.5	61.7	14.0	57.2
10	5	1987	15.0	59.0	17.0	62.6	14.0	57.2
10	6	1987	15.0	59.0	16.5	61.7	14.5	58.1
10	7	1987	15.0	59.0	16.5	61.7	14.0	57.2
10	8	1987	14.5	58.1	16.0	60.8	14.0	57.2
10	9	1987	14.5	58.1	15.5	59.9	13.5	56.3
10	10	1987	14.5	58.1	15.5	59.9	13.5	56.3
10	11	1987	14.0	57.2	15.0	59.0	13.5	56.3
10	12	1987	14.0	57.2	15.0	59.0	13.0	55.4
10	13	1987	14.0	57.2	15.0	59.0	13.5	56.3
10	14	1987	14.0	57.2	15.0	59.0	13.0	55.4
10	15	1987	13.5	56.3	15.0	59.0	12.5	54.5
10	16	1987	13.5	56.3	15.0	59.0	12.5	54.5
10	17	1987	13.5	56.3	14.5	58.1	12.5	54.5
10	18	1987	13.0	55.4	14.5	58.1	12.5	54.5
10	19	1987	13.0	55.4	14.5	58.1	12.0	53.6
10	20	1987	13.0	55.4	14.5	58.1	12.0	53.6
10	21	1987	13.0	55.4	14.0	57.2	12.0	53.6
10	22	1987	13.0	55.4	14.0	57.2	12.5	54.5
10	23	1987	13.0	55.4	13.5	56.3	12.5	54.5
10	24	1987	13.0	55.4	13.5	56.3	13.0	55.4
10	25	1987	13.0	55.4	14.5	58.1	12.5	54.5
10	26	1987	13.0	55.4	14.5	58.1	12.5	54.5
10	27	1987	13.0	55.4	14.5	58.1	12.5	54.5
10	28	1987	13.0	55.4	14.0	57.2	12.5	54.5
10	29	1987	13.0	55.4	13.5	56.3	12.5	54.5
10	30	1987	12.5	54.5	13.5	56.3	12.0	53.6

1/ Omnidata DP112 thermograph located at river mile 284.8 on west bank Sept 1987- Apr. 1988
and at river mile 287.3 on west bank July 1989-Dec. 1989.

2/ Unpublished data collected by DWR, Northern District.

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	31	1987	12.5	54.5	13.5	56.3	12.5	54.5
11	1	1987	12.5	54.5	13.5	56.3	12.0	53.6
11	2	1987	12.5	54.5	13.0	55.4	12.0	53.6
11	3	1987	12.5	54.5	13.5	56.3	12.5	54.5
11	4	1987	12.5	54.5	13.5	56.3	12.0	53.6
11	5	1987	13.0	55.4	14.0	57.2	12.5	54.5
11	6	1987	12.5	54.5	13.5	56.3	12.5	54.5
11	7	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	8	1987	13.0	55.4	14.0	57.2	13.0	55.4
11	9	1987	13.0	55.4	13.5	56.3	12.0	53.6
11	10	1987	13.0	55.4	14.0	57.2	13.0	55.4
11	11	1987	12.5	54.5	13.5	56.3	12.0	53.6
11	12	1987	12.5	54.5	13.5	56.3	12.0	53.6
11	13	1987	13.0	55.4	13.5	56.3	12.5	54.5
11	14	1987	13.0	55.4	14.0	57.2	13.0	55.4
11	15	1987	12.5	54.5	13.0	55.4	11.5	52.7
11	16	1987	12.0	53.6	13.0	55.4	11.5	52.7
11	17	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	18	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	19	1987	13.0	55.4	13.5	56.3	12.5	54.5
11	20	1987	13.0	55.4	13.5	56.3	12.5	54.5
11	21	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	22	1987	12.5	54.5	13.0	55.4	12.0	53.6
11	23	1987	12.5	54.5	13.0	55.4	11.5	52.7
11	24	1987	12.5	54.5	13.0	55.4	12.0	53.6
11	25	1987	12.5	54.5	13.0	55.4	12.0	53.6
11	26	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	27	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	28	1987	11.5	52.7	12.5	54.5	11.0	51.8
11	29	1987	11.5	52.7	12.5	54.5	11.0	51.8
11	30	1987	11.5	52.7	12.5	54.5	11.0	51.8
12	1	1987	12.0	53.6	12.5	54.5	12.0	53.6
12	2	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	3	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	4	1987	13.0	55.4	13.5	56.3	13.0	55.4
12	5	1987	13.0	55.4	13.0	55.4	13.0	55.4
12	6	1987	12.0	53.6	13.0	55.4	12.0	53.6
12	7	1987	11.5	52.7	12.5	54.5	11.5	52.7
12	8	1987	11.0	51.8	12.0	53.6	10.5	50.9
12	9	1987	11.0	51.8	12.0	53.6	10.5	50.9
12	10	1987	11.0	51.8	12.0	53.6	11.0	51.8
12	11	1987	12.0	53.6	12.5	54.5	11.5	52.7
12	12	1987	10.0	50.0	11.5	52.7	10.0	50.0
12	13	1987	9.5	49.1	10.5	50.9	9.5	49.1
12	14	1987	9.5	49.1	10.5	50.9	9.5	49.1
12	15	1987	9.5	49.1	10.5	50.9	9.5	49.1

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	16	1987	10.0	50.0	10.5	50.9	10.0	50.0
12	17	1987	10.0	50.0	10.5	50.9	10.0	50.0
12	18	1987	10.0	50.0	11.0	51.8	10.0	50.0
12	19	1987	10.0	50.0	10.5	50.9	9.5	49.1
12	20	1987	9.5	49.1	10.0	50.0	9.0	48.2
12	21	1987	9.5	49.1	10.0	50.0	9.0	48.2
12	22	1987	10.0	50.0	10.5	50.9	10.0	50.0
12	23	1987	10.0	50.0	10.5	50.9	9.5	49.1
12	24	1987	9.0	48.2	9.5	49.1	8.5	47.3
12	25	1987	8.0	46.4	9.0	48.2	8.0	46.4
12	26	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	27	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	28	1987	8.0	46.4	9.0	48.2	8.0	46.4
12	29	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	30	1987	8.0	46.4	8.5	47.3	8.0	46.4
12	31	1987	8.0	46.4	8.5	47.3	7.5	45.5

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1988	8.0	46.4	9.0	48.2	7.5	45.5
1	2	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	3	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	4	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	5	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	6	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	7	1988	9.0	48.2	10.0	50.0	9.0	48.2
1	8	1988	8.5	47.3	9.5	49.1	8.5	47.3
1	9	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	10	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	11	1988	9.5	49.1	10.0	50.0	9.5	49.1
1	12	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	13	1988	8.5	47.3	9.0	48.2	7.5	45.5
1	14	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	15	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	16	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	17	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	18	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	19	1988	8.0	46.4	9.0	48.2	7.5	45.5
1	20	1988	7.5	45.5	8.5	47.3	7.0	44.6
1	21	1988	8.0	46.4	9.0	48.2	7.0	44.6
1	22	1988	8.0	46.4	9.5	49.1	7.0	44.6
1	23	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	24	1988	8.5	47.3	10.0	50.0	8.0	46.4
1	25	1988	8.5	47.3	10.0	50.0	8.0	46.4
1	26	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	27	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	28	1988	8.5	47.3	9.5	49.1	8.5	47.3
1	29	1988	8.5	47.3	9.5	49.1	8.5	47.3
1	30	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	31	1988	8.5	47.3	9.5	49.1	8.0	46.4
2	1	1988	8.0	46.4	9.5	49.1	7.5	45.5
2	2	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	3	1988	8.0	46.4	9.0	48.2	7.0	44.6
2	4	1988	8.0	46.4	9.5	49.1	7.0	44.6
2	5	1988	8.0	46.4	9.5	49.1	7.0	44.6
2	6	1988	8.0	46.4	9.0	48.2	7.0	44.6
2	7	1988	8.0	46.4	9.5	49.1	7.5	45.5
2	8	1988	8.5	47.3	10.0	50.0	7.5	45.5
2	9	1988	9.0	48.2	10.5	50.9	8.0	46.4
2	10	1988	9.0	48.2	10.5	50.9	8.5	47.3
2	11	1988	9.5	49.1	10.5	50.9	8.5	47.3
2	12	1988	9.5	49.1	11.0	51.8	8.5	47.3
2	13	1988	9.0	48.2	10.5	50.9	8.5	47.3
2	14	1988	9.0	48.2	10.0	50.0	8.0	46.4
2	15	1988	9.0	48.2	10.5	50.9	8.0	46.4

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	16	1988	9.5	49.1	10.5	50.9	8.5	47.3
2	17	1988	8.5	47.3	10.0	50.0	8.0	46.4
2	18	1988	8.5	47.3	10.0	50.0	8.0	46.4
2	19	1988	9.0	48.2	10.0	50.0	8.0	46.4
2	20	1988	9.0	48.2	10.5	50.9	8.0	46.4
2	21	1988	9.5	49.1	11.0	51.8	8.0	46.4
2	22	1988	9.5	49.1	11.0	51.8	8.0	46.4
2	23	1988	9.5	49.1	11.0	51.8	8.0	46.4
2	24	1988	9.5	49.1	11.0	51.8	8.5	47.3
2	25	1988	9.5	49.1	11.0	51.8	8.0	46.4
2	26	1988	9.0	48.2	10.5	50.9	8.0	46.4
2	27	1988	9.5	49.1	10.5	50.9	9.0	48.2
2	28	1988	9.5	49.1	10.5	50.9	9.0	48.2
2	29	1988	9.5	49.1	10.5	50.9	9.0	48.2
3	1	1988	9.0	48.2	9.5	49.1	8.5	47.3
3	2	1988	9.5	49.1	10.5	50.9	9.0	48.2
3	3	1988	9.5	49.1	11.0	51.8	8.0	46.4
3	4	1988	9.5	49.1	10.5	50.9	8.5	47.3
3	5	1988	9.5	49.1	11.0	51.8	8.0	46.4
3	6	1988	9.5	49.1	10.5	50.9	9.0	48.2
3	7	1988	10.0	50.0	11.5	52.7	9.0	48.2
3	8	1988	9.5	49.1	11.5	52.7	8.5	47.3
3	9	1988	10.0	50.0	11.5	52.7	8.5	47.3
3	10	1988	9.5	49.1	10.5	50.9	8.5	47.3
3	11	1988	9.0	48.2	10.5	50.9	8.0	46.4
3	12	1988	9.0	48.2	10.5	50.9	8.0	46.4
3	13	1988	9.0	48.2	10.5	50.9	8.0	46.4
3	14	1988	9.0	48.2	11.0	51.8	7.5	45.5
3	15	1988	9.0	48.2	11.0	51.8	8.0	46.4
3	16	1988	9.0	48.2	11.0	51.8	8.0	46.4
3	17	1988	9.0	48.2	11.0	51.8	8.0	46.4
3	19	1988	9.0	48.2	11.0	51.8	8.0	46.4
3	20	1988	9.5	49.1	11.0	51.8	8.5	47.3
3	21	1988	9.5	49.1	11.5	52.7	8.5	47.3

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
7	14	1989	12.0	53.6	13.0	55.4	11.0	51.8
7	15	1989	12.0	53.6	13.0	55.4	11.0	51.8
7	16	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	17	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	18	1989	12.5	54.5	13.5	56.3	11.5	52.7
7	19	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	20	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	21	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	22	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	23	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	24	1989	12.0	53.6	13.0	55.4	11.5	52.7
7	25	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	26	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	27	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	28	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	29	1989	12.5	54.5	13.5	56.3	11.5	52.7
7	30	1989	12.5	54.5	13.5	56.3	12.0	53.6
7	31	1989	12.0	53.6	13.5	56.3	11.5	52.7
8	1	1989	12.0	53.6	13.0	55.4	11.5	52.7
8	2	1989	12.5	54.5	13.5	56.3	11.5	52.7
8	3	1989	12.5	54.5	13.5	56.3	12.0	53.6
8	4	1989	12.5	54.5	14.0	57.2	12.0	53.6
8	5	1989	12.5	54.5	14.0	57.2	12.0	53.6
8	6	1989	12.5	54.5	14.0	57.2	12.0	53.6
8	7	1989	12.5	54.5	14.0	57.2	12.0	53.6
8	8	1989	13.0	55.4	14.0	57.2	12.5	54.5
8	9	1989	13.0	55.4	14.0	57.2	12.5	54.5
8	10	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	11	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	12	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	13	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	14	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	15	1989	13.5	56.3	14.5	58.1	12.5	54.5
8	16	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	17	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	18	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	19	1989	13.0	55.4	14.5	58.1	12.5	54.5
8	20	1989	13.5	56.3	14.5	58.1	12.5	54.5
9	16	1989	13.5	56.3	13.5	56.3	13.5	56.3
9	17	1989	13.0	55.4	13.5	56.3	13.0	55.4
9	18	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	19	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	20	1989	14.5	58.1	15.5	59.9	13.5	56.3
9	22	1989	14.5	58.1	16.0	60.8	13.5	56.3
9	23	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	24	1989	14.5	58.1	15.5	59.9	14.0	57.2

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	25	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	26	1989	14.0	57.2	14.5	58.1	13.5	56.3
9	27	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	28	1989	14.0	57.2	15.0	59.0	13.5	56.3
9	29	1989	14.0	57.2	14.5	58.1	13.5	56.3
9	30	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	1	1989	14.0	57.2	15.0	59.0	13.0	55.4
10	2	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	3	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	4	1989	13.5	56.3	14.5	58.1	12.5	54.5
10	5	1989	13.5	56.3	14.5	58.1	12.5	54.5
10	6	1989	13.5	56.3	15.0	59.0	12.5	54.5
10	7	1989	13.5	56.3	15.0	59.0	13.0	55.4
10	8	1989	14.0	57.2	15.5	59.9	13.0	55.4
10	9	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	10	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	11	1989	14.5	58.1	16.0	60.8	14.0	57.2
10	12	1989	14.5	58.1	15.5	59.9	14.0	57.2
10	13	1989	14.0	57.2	15.5	59.9	13.5	56.3
10	14	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	15	1989	14.0	57.2	15.0	59.0	13.0	55.4
10	16	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	17	1989	13.5	56.3	15.0	59.0	13.0	55.4
10	18	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	19	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	20	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	21	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	22	1989	13.5	56.3	13.5	56.3	13.5	56.3
10	23	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	25	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	26	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	27	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	28	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	29	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	30	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	31	1989	13.5	56.3	14.5	58.1	12.5	54.5
11	1	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	2	1989	13.5	56.3	15.0	59.0	13.0	55.4
11	3	1989	14.0	57.2	15.0	59.0	13.0	55.4
11	4	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	5	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	6	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	7	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	8	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	9	1989	14.0	57.2	15.5	59.9	13.5	56.3

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	10	1989	14.0	57.2	15.0	59.0	14.0	57.2
11	11	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	12	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	13	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	14	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	15	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	16	1989	13.5	56.3	15.0	59.0	13.5	56.3
11	17	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	18	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	19	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	20	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	21	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	22	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	23	1989	13.5	56.3	13.5	56.3	13.5	56.3
11	24	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	25	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	26	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	27	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	28	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	29	1989	13.0	55.4	13.5	56.3	12.5	54.5
11	30	1989	13.0	55.4	13.5	56.3	13.0	55.4
12	1	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	2	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	3	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	4	1989	13.0	55.4	13.5	56.3	12.5	54.5
12	5	1989	13.0	55.4	14.0	57.2	13.0	55.4
12	6	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	7	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	8	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	9	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	10	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	11	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	12	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	13	1989	11.5	52.7	13.0	55.4	11.0	51.8
12	14	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	15	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	16	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	17	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	18	1989	11.0	51.8	12.0	53.6	10.5	50.9
12	19	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	20	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	21	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	22	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	23	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	24	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	25	1989	10.5	50.9	11.5	52.7	10.5	50.9

Table 8d. Daily Mean, Maximum, and Minimum Water Temperatures below Clear Creek, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	26	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	27	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	28	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	29	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	30	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	31	1989	10.0	50.0	11.0	51.8	10.0	50.0

YEAR 1987

Table 8c. Periodic Afternoon and Morning Water Temperatures at Deschutes Bridge, 1987^{1/ 2/}

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM
1									58.3	-	-	61.7
2									58.1	-		
3									57.7	-		
4									57.7	-		
5									-	54		
6									56.5	-		
7									57.2	-		
8									57	53.8		
9									57	54.3		
10									-	54.3		
11									-	-		
12									-	-		
13									60.8	58.3		
14									60.6	56.1		
15									61	56.7		
16									60.8	-		
17									61.3	56.5		
18									61.3	56.7		
19									-	-		
20									-	-		
21									62.4	-		
22									61.3	57.6		
23									61.7	-		
24									61	57.9		
25									61.2	57.7		
26									-	-		
27									-	-		
28									58.5	-	-	-
29									59.2	-	-	57
30									59.9	-	-	-
31									58.6			

MAX

MIN.

-No Data.

1/ Handheld readings taken with ASTM thermometer (river mile 280.8).

2/ Unpublished data collected by DFG, Region 1.

YEAR 1941

Table 9a. Daily Maximum Water Temperatures at Balls Ferry, July – October 1941^{1/} 2/

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1								72	64	60		
2								73	65	61		
3								72	66	61		
4								72	67	59		
5								73	–	58		
6								72	–	58		
7								72	–	56		
8								72	–	56		
9								72	–	56		
10								71	–	56		
11								71	–	55		
12								69	–	54		
13								72	64	55		
14								72	64	55		
15								74	64	55		
16								73	64	56		
17								72	64	57		
18								72	60	56		
19								72	60	55		
20								72	59	56		
21								72	59	55		
22								71	59	54		
23								70	60	51		
24								70	60	50		
25								70	61	48		
26								70	62			
27								68	62			
28								67	62			
29								73	66	62		
30								73	65	61		
31								74	65			
MAX										74		
MIN												
–No Data.												

1/ Thermograph type and exact location unknown.

2/ From USFWS, 1949.

YEAR 1945

Table 9b. Daily Maximum and Minimum Water Temperatures at Balls Ferry, December 1945^{1/} ^{2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									
MAX																									
MIN																									
-No Data.																									

1/ Thermograph type and exact location unknown.

2/ From USFWS, 1949.

YEAR 1946

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	-	-	-	-	49	47	48	46	-	-	54	52	54	54	-	-	55	52	57	55	55	53	-	-	-
2	-	-	47	45	49	47	50	47	-	-	55	52	55	51	-	-	55	53	57	55	53	52	51	-	-
3	-	-	45	45	49	47	49	48	-	-	55	53	55	52	-	-	55	53	55	54	54	52	51	49	-
4	-	-	46	45	49	47	50	48	-	-	54	52	55	52	55	51	55	52	56	54	55	52	50	49	-
5	-	-	46	45	46	45	50	48	-	-	53	52	55	51	54	51	55	53	-	-	54	53	51	50	-
6	-	-	46	45	47	47	51	48	-	-	50	55	52	54	50	56	53	-	-	54	53	50	49	-	
7	-	-	46	45	48	47	51	49	-	-	54	-	55	51	54	51	56	54	-	-	54	53	49	49	-
8	-	-	-	-	49	47	51	50	-	-	53	51	54	51	55	50	56	55	-	-	53	51	49	49	-
9	-	-	46	-	50	47	50	48	-	-	53	51	54	51	55	50	56	53	-	-	54	53	51	50	-
10	49	48	47	45	49	47	50	48	-	-	53	50	55	52	55	51	56	53	-	-	54	53	51	49	-
11	49	47	48	46	49	47	53	49	-	-	54	51	55	51	55	51	56	54	-	-	53	52	51	50	-
12	49	47	47	46	47	45	51	48	-	-	54	51	55	51	55	51	56	54	-	-	-	-	50	50	-
13	49	47	47	46	47	46	51	50	-	-	54	51	55	51	55	51	56	54	-	-	54	52	51	50	-
14	48	47	48	46	48	46	53	49	-	-	52	55	52	55	51	56	54	-	-	54	54	51	50	-	
15	48	48	48	-	48	46	53	50	-	-	54	-	53	51	55	51	56	55	-	-	54	53	50	50	-
16	49	47	48	46	48	47	52	50	-	-	54	51	54	49	-	51	56	54	-	-	53	52	50	49	-
17	48	47	49	47	49	47	52	50	54	-	54	51	54	50	54	52	56	54	-	-	54	53	50	48	-
18	48	47	47	46	49	47	53	50	53	51	54	52	55	50	55	51	57	55	-	-	54	53	51	48	-
19	48	47	47	45	47	47	-	54	51	54	51	55	51	54	52	57	54	-	-	54	51	52	50	-	
20	-	48	47	45	47	46	-	-	53	51	55	52	55	50	55	51	-	55	-	-	51	50	52	50	-
21	48	47	46	46	47	46	-	-	53	51	55	52	55	51	55	51	57	55	56	55	52	51	50	50	-
22	48	46	48	45	48	45	-	-	53	50	54	51	55	51	55	52	58	56	55	53	53	52	51	50	-
23	48	47	47	45	48	47	-	-	54	50	52	52	55	52	54	51	58	56	57	54	52	50	51	50	-
24	48	47	46	46	48	47	-	-	54	51	53	50	55	51	55	52	57	55	57	55	51	50	51	50	-
25	48	46	47	45	47	47	-	-	54	52	54	50	54	50	56	52	57	56	56	55	-	-	52	51	-
26	47	45	47	44	49	47	-	-	55	52	54	51	-	50	56	52	58	56	55	53	-	-	52	50	-
27	-	-	46	46	51	49	-	-	55	52	54	51	-	-	56	53	58	56	54	53	-	-	51	49	-
28	-	-	49	46	50	50	-	-	54	50	54	51	-	-	55	52	57	-	54	53	-	-	49	48	-
29	47	46	-	-	50	48	-	-	50	50	53	52	-	-	55	53	57	55	54	52	-	-	49	49	-
30	48	46	-	-	46	46	-	-	52	48	54	51	-	-	55	53	57	55	54	53	-	-	-	47	-
31	-	-	-	-	47	46	-	-	50	-	-	-	-	-	55	52	-	-	55	52	-	-	-	-	-
MAX						51																			
MIN						45																			

-No Data.

1/ Thermograph type and exact location unknown.

2/ From USFWS, 1949 and 1952.

YEAR 1947

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	48	-	-	49	48	56	52	56	51	54	51	57	52	57	53	58	55	59	57	58	56	55	53
2	50	48	-	-	51	48	54	51	56	51	57	52	56	52	57	53	59	55	60	57	57	55	53	52
3	50	48	49	48	49	48	54	49	55	51	56	52	56	52	57	53	59	56	62	58	58	55	54	53
4	49	48	50	48	51	48	53	49	56	51	55	51	56	51	58	53	59	55	61	58	58	56	53	52
5	48	47	49	48	50	47	52	51	55	51	57	52	56	52	58	53	60	55	60	58	56	54	53	51
6	49	46	48	48	50	48	55	50	55	51	57	54	57	52	58	53	60	56	60	57	56	54	53	51
7	49	48	47	47	49	48	52	51	55	51	54	53	57	52	57	53	60	57	58	56	57	55	52	51
8	49	48	47	47	49	47	51	49	55	51	55	53	56	51	57	53	59	-	58	56	57	55	53	51
9	49	48	47	46	49	48	54	49	55	50	58	54	57	52	57	53	59	56	57	57	56	54	52	51
10	49	47	47	46	50	50	57	51	54	50	58	54	56	52	57	53	59	56	57	57	57	55	52	50
11	49	47	49	47	52	49	57	52	-	50	57	53	56	52	57	53	59	55	59	55	56	55	52	51
12	49	48	52	49	53	49	58	52	56	52	57	53	57	52	57	53	59	55	59	57	55	54	52	50
13	48	47	51	49	54	49	58	53	54	50	58	53	57	52	57	53	61	56	60	57	55	55	52	51
14	48	46	49	48	55	50	60	54	55	50	58	53	57	52	57	53	61	57	59	58	55	54	52	51
15	47	46	49	48	55	51	60	55	56	50	57	53	57	53	58	54	60	56	58	57	55	55	52	51
16	48	46	51	49	55	50	59	55	56	51	58	53	57	52	58	54	61	57	60	57	56	54	51	50
17	48	48	51	47	56	52	57	54	56	52	58	51	57	52	58	54	61	57	59	57	56	55	52	51
18	48	48	50	48	54	53	57	52	56	51	58	53	57	52	58	54	60	57	60	57	56	54	51	50
19	48	47	52	49	56	52	57	53	57	-	58	54	57	52	58	54	61	57	60	57	55	53	51	51
20	48	47	51	48	57	52	56	52	56	52	56	53	57	52	57	55	60	57	59	58	55	53	51	51
21	48	47	50	48	55	52	55	51	56	51	57	52	57	53	56	53	60	57	59	57	54	53	51	51
22	49	47	52	48	53	52	55	51	56	51	57	52	57	53	57	53	60	57	58	56	53	52	51	50
23	49	47	52	49	53	49	55	51	56	51	62	52	57	52	58	54	60	56	59	56	54	52	51	50
24	49	48	53	49	53	49	55	51	55	52	62	52	57	52	58	54	59	56	60	57	55	53	51	50
25	49	47	52	49	54	50	55	51	56	51	62	52	56	53	58	54	58	56	60	57	55	53	50	50
26	51	48	51	49	55	49	55	51	54	51	62	53	56	53	58	54	59	55	59	57	55	54	51	50
27	48	46	50	48	52	51	56	52	53	51	61	52	56	53	58	54	60	56	59	58	55	54	50	50
28	47	42	51	48	52	50	53	52	55	50	61	52	57	53	57	54	59	56	58	57	55	54	50	50
29	47	41	-	-	53	50	55	51	54	51	61	51	57	53	57	55	60	57	57	56	54	50	48	
30	47	43	-	-	53	50	55	51	53	52	62	51	57	53	58	54	60	57	58	56	55	54	49	48
31	47	44	-	-	51	-	53	51	51	-	57	53	58	54	57	57	59	57	59	57	49	49	-	
MAX	51		57		60		62		57		58		62		58		55							
MIN	41		47		49		51		51		53		56		52		48							

-No Data.

YEAR 1948

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	-	-	-	-	51	48	56	51	51	48	55	50	57	52	55	51	55	52	57	53	55	55	53	51	
2	-	-	48	-	51	48	53	49	52	49	55	50	56	52	55	51	55	52	-	-	55	54	53	52	
3	-	-	48	46	50	47	50	48	51	49	53	51	56	52	55	51	55	52	-	-	56	54	52	51	
4	-	-	47	46	50	46	49	47	52	48	53	50	55	51	55	51	56	52	56	-	55	53	51	50	
5	51	-	47	46	49	47	50	48	53	49	52	51	53	51	55	51	56	52	56	-	55	53	51	50	
6	52	51	48	46	50	46	50	47	52	49	54	50	55	50	55	51	56	52	-	-	56	53	51	50	
7	53	52	48	46	51	47	49	47	51	48	55	51	55	51	55	51	57	53	-	-	55	53	51	50	
8	52	49	47	46	48	47	49	47	51	48	55	51	55	51	55	51	55	53	-	-	54	52	51	49	
9	49	48	46	45	51	47	49	47	51	48	55	51	56	51	55	51	55	52	-	-	56	53	51	50	
10	49	48	47	45	50	47	53	47	-	48	53	51	57	52	55	51	56	53	-	-	56	54	51	50	
11	49	47	47	45	50	47	-	50	-	-	55	51	57	52	55	51	56	53	54	-	55	54	51	51	
12	49	47	48	45	50	48	53	-	-	-	55	51	56	52	55	51	57	53	57	54	55	53	51	49	
13	50	48	47	46	48	47	50	49	-	-	55	51	57	52	55	51	57	53	56	54	55	53	50	48	
14	49	48	48	46	48	46	51	49	-	-	55	51	57	52	55	51	57	53	58	55	54	53	49	48	
15	50	48	48	47	49	46	51	50	-	-	54	51	57	52	55	51	57	53	58	54	55	53	49	47	
16	50	48	51	47	48	46	51	50	-	-	54	50	56	52	55	51	54	53	57	53	55	53	49	48	
17	50	48	50	48	51	46	52	49	54	-	53	50	56	52	55	51	54	53	56	53	53	52	50	49	
18	50	48	50	48	-	48	53	48	52	50	54	50	57	52	55	51	57	53	57	53	54	52	50	48	
19	50	48	50	47	-	-	54	49	50	49	55	50	57	52	55	52	57	53	57	54	54	53	50	48	
20	49	47	50	47	-	-	54	50	51	49	57	52	57	52	55	51	57	53	57	54	53	52	50	49	
21	49	47	50	49	-	-	52	48	54	49	57	52	56	52	54	51	57	53	57	54	54	52	49	48	
22	50	48	51	49	50	-	51	48	55	50	55	51	55	51	53	52	57	54	56	54	55	53	48	47	
23	51	48	50	47	49	47	51	48	56	51	56	51	55	51	55	52	57	53	57	54	55	52	48	46	
24	51	48	50	47	48	46	51	48	56	52	56	51	55	50	55	52	57	53	57	55	54	53	48	47	
25	49	48	51	47	49	45	52	48	56	52	56	51	55	51	55	52	55	52	57	54	53	51	48	47	
26	48	46	51	48	51	47	51	48	55	52	56	51	55	51	55	52	56	53	56	54	53	51	48	47	
27	49	46	50	48	53	49	49	49	52	51	56	51	55	51	55	52	57	53	55	53	53	50	49	48	
28	-	47	50	48	51	50	50	48	50	49	57	52	55	51	54	52	57	53	55	53	52	51	50	48	
29	-	-	51	47	54	50	50	48	47	50	49	57	53	55	51	55	52	55	53	54	53	51	48	47	
30	-	-	-	-	55	50	51	47	52	49	56	53	55	51	55	52	56	52	55	53	53	52	48	46	
31	-	-	-	-	55	50	-	-	54	50	-	-	55	51	55	52	-	-	55	54	-	48	47		
	MAX										57		57		55		57			56		53			
	MIN										50		50		51		52			50		48			
	-No Data.																								

YEAR 1949

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	46	45	43	46	45	54	49	52	48	53	47	52	48	54	49	56	51	58	53	57	53	54	52
2	46	45	44	43	46	45	54	51	53	49	54	48	53	49	54	50	56	51	57	52	56	53	54	52
3	46	45	44	43	46	45	54	50	53	48	55	48	53	48	54	50	56	51	58	52	56	53	53	51
4	46	45	44	43	47	45	54	50	53	48	55	49	53	48	54	50	56	51	56	53	56	53	52	52
5	47	45	44	42	46	45	54	51	54	48	55	49	53	49	54	50	56	51	56	52	56	53	53	52
6	49	47	43	41	48	44	54	51	54	48	55	49	53	48	54	49	56	51	55	52	55	53	53	52
7	48	47	44	40	47	46	55	52	53	49	54	49	53	48	54	49	54	51	55	52	55	54	53	52
8	47	45	44	42	47	45	55	52	51	49	54	48	53	48	54	49	56	50	55	51	55	54	53	52
9	45	44	44	43	46	45	55	52	52	48	54	49	53	49	54	50	56	51	55	52	54	53	53	52
10	43	40	44	43	47	45	56	52	54	48	55	49	-	-	54	50	56	51	56	53	54	53	52	50
11	-	-	43	40	46	45	55	53	55	49	54	49	53	-	54	50	56	51	57	53	55	53	51	49
12	-	-	42	40	48	45	56	52	55	49	54	49	53	49	54	50	56	51	58	54	55	53	51	50
13	-	-	42	40	48	47	56	52	55	49	56	49	53	49	54	50	56	51	56	53	55	52	51	50
14	-	-	44	41	47	47	55	51	52	50	55	49	53	49	54	50	56	51	57	53	55	53	51	50
15	-	-	44	43	49	47	56	52	52	48	54	49	53	49	54	50	56	51	57	53	55	53	52	51
16	-	-	46	43	48	47	57	54	55	48	53	49	53	49	54	50	57	52	57	53	55	53	52	52
17	45	-	46	43	48	48	57	54	55	49	53	48	53	49	54	50	56	51	55	53	55	52	52	51
18	45	44	46	43	49	48	57	54	54	49	50	48	53	49	54	50	57	51	54	52	55	53	51	50
19	45	44	46	44	50	49	56	53	51	48	51	48	53	49	55	50	57	51	-	51	55	52	50	49
20	45	43	45	44	49	46	56	51	49	47	50	48	53	49	55	50	57	52	-	-	54	52	50	48
21	45	44	45	44	52	49	57	52	52	47	52	48	53	49	54	50	57	52	-	-	55	52	50	49
22	45	44	48	44	50	47	57	52	53	47	-	-	53	49	54	50	57	52	-	-	54	52	51	49
23	44	42	46	45	49	45	56	53	54	48	-	-	53	49	54	50	57	52	-	-	55	53	51	49
24	43	41	48	45	51	46	55	50	55	48	-	-	54	49	54	50	57	52	-	-	55	53	50	49
25	44	42	48	45	50	47	55	49	55	49	-	-	53	49	54	50	56	52	55	52	55	53	50	49
26	44	42	47	46	52	49	55	49	55	49	-	-	54	49	55	50	55	52	55	53	54	53	50	48
27	45	42	48	44	54	50	52	50	54	48	53	48	54	49	53	50	55	52	56	53	55	53	50	48
28	45	43	48	46	53	49	51	49	54	48	52	49	54	49	55	51	55	52	56	53	56	54	50	48
29	45	43			53	49	52	47	49	47	52	48	54	49	55	51	57	52	57	53	55	53	50	48
30	45	43			52	49	51	48	53	47	52	48	53	49	55	51	58	52	56	53	55	53	50	49
31	45	43			52	48			52	48			52	50	57	51			56	53			49	48
MAX			48		54		57		55				54		57		58			57				
MIN			40		44		47		47				48		49		50			52				

-No Data.

YEAR 1950

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	49	48	43	41	50	48	53	49	50	47	56	51	55	50	52	48	55	49	51	47	50	50	51	49	
2	48	48	44	42	50	49	54	49	49	46	55	51	55	50	52	48	55	49	52	48	52	50	49	43	
3	47	46	44	39	52	50	53	49	47	44	54	49	54	50	53	49	54	49	50	49	53	50	43	40	
4	48	47	38	35	51	49	53	48	48	44	54	49	53	49	52	48	55	50	52	48	53	51	50	43	
5	48	46	43	38	51	50	51	48	50	45	53	49	53	48	52	47	53	48	52	50	53	50	49	46	
6	48	46	44	41	50	47	48	46	49	47	52	48	53	48	52	46	53	48	52	49	50	47	49	48	
7	47	45	46	43	48	46	47	45	50	46	49	45	53	48	52	47	51	49	54	49	49	47	50	48	
8	47	44	46	43	50	47	45	44	50	46	50	45	52	48	52	47	52	49	53	50	48	47	52	50	
9	47	46	46	44	49	47	47	43	52	47	49	46	53	48	53	47	51	49	54	51	52	49	52	50	
10	47	44	47	45	47	45	49	45	53	48	49	47	53	49	53	47	53	49	55	50	50	47	51	48	
11	45	43	46	43	47	44	50	46	54	49	49	46	53	48	53	48	52	50	55	51	49	47	51	46	
12	47	45	47	44	48	43	49	48	54	49	50	45	53	48	54	49	54	50	54	51	48	47	53	50	
13	47	43	47	45	46	44	50	47	54	50	50	47	53	48	53	49	53	50	54	51	48	47	51	50	
14	44	42	48	46	48	44	51	46	53	50	51	47	54	49	53	48	53	49	53	51	48	47	52	51	
15	45	43	49	46	49	46	54	47	55	50	51	47	54	49	54	48	53	50	51	50	47	47	52	51	
16	44	43	49	47	50	47	54	49	53	50	50	47	53	49	54	48	52	50	51	51	48	47	52	50	
17	45	35	49	46	48	47	55	50	53	49	51	47	53	48	54	48	51	49	52	51	49	48	51	49	
18	45	37	48	46	52	48	56	51	52	48	53	47	52	48	54	48	57	49	53	50	50	49	51	50	
19	44	40	49	46	49	46	57	51	53	49	54	49	52	48	54	49	54	49	52	50	49	47	52	51	
20	45	44	49	46	52	48	57	53	54	50	54	50	53	48	54	49	55	50	52	50	50	50	50	-	
21	45	43	49	47	50	48	59	54	55	50	54	50	53	48	53	49	55	50	52	50	51	50	51	49	
22	45	43	49	47	52	47	57	53	55	50	54	50	53	48	52	47	54	50	52	50	56	48	50	48	
23	46	45	49	47	50	45	54	52	53	50	51	49	53	48	52	47	55	50	51	50	55	52	49	47	
24	44	43	51	47	48	45	54	50	53	49	51	47	53	48	53	49	54	50	51	50	55	52	48	47	
25	43	41	50	49	48	45	55	50	54	50	50	47	53	48	53	48	52	51	51	50	55	52	49	47	
26	44	42	50	48	48	46	55	51	54	50	51	46	53	48	53	47	54	50	50	49	54	53	49	48	
27	44	41	50	49	50	45	55	52	54	50	53	46	53	48	53	47	55	50	50	49	54	53	49	47	
28	43	42	50	47	50	45	53	49	54	50	54	48	52	48	55	49	55	51	50	49	53	50	48	47	
29	43	41			50	46	53	49	56	51	55	49	53	48	55	49	52	50	51	50	52	50	47		
30	43	42			54	47	51	48	56	51	54	49	54	50	54	49	52	48	51	50	53	52	49	48	
31	44	42				53	49		55	51			54	49	55	49		50	50			48	45		
MAX	49		51		54		59		56		56		55		55		57		55		56				
MIN	35		35		43		43		44		45		48		46		48		47		47				

-No Data.

YEAR 1951

Table 9c. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1946-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	45	45	41	47	43	51	45	51	48	56	50	57	51	57	50	56	50	58	54	58	55	52	52
2	48	47	45	44	47	41	53	46	50	49	56	50	59	50	56	50	57	51	58	55	57	54	51	50
3	48	47	45	44	45	41	53	49	49	48	57	50	55	50	56	49	58	52	58	54	57	54	49	48
4	48	47	46	44	44	43	53	49	50	48	56	50	55	49	56	49	57	52	58	55	58	55	49	48
5	49	46	46	46	45	41	54	49	50	49	55	50	55	49	56	49	57	52	59	55	56	54	49	47
6	48	45	49	46	45	43	55	50	53	50	55	50	56	48	56	49	57	52	59	54	58	54	48	45
7	48	45	48	47	46	44	56	50	53	47	55	50	57	48	56	50	57	51	60	54	57	55	47	46
8	46	44	50	47	47	45	58	50	56	50	56	50	58	49	57	50	59	53	59	54	58	54	47	45
9	47	46	49	46	47	43	59	52	58	52	56	50	58	50	-	50	59	52	58	53	55	53	47	43
10	46	44	47	47	47	42	59	53	56	53	57	50	58	50	-	-	58	53	56	53	55	53	49	45
11	46	45	48	47	49	42	58	52	54	52	56	51	56	50	-	-	59	53	56	53	53	52	51	48
12	48	45	48	45	50	44	58	51	53	50	58	51	56	50	-	-	57	52	57	53	54	53	49	47
13	46	44	49	45	52	45	57	52	54	49	58	52	56	50	58	-	57	51	58	54	53	52	48	45
14	45	44	48	46	52	46	58	52	56	50	59	52	56	49	59	51	57	51	58	54	55	53	47	45
15	46	44	49	46	51	47	57	52	59	52	58	51	56	49	59	52	58	51	58	55	54	53	46	45
16	46	44	49	45	50	46	53	50	59	54	58	51	57	49	59	52	56	53	56	53	54	51	47	43
17	45	44	47	45	50	45	53	50	59	54	59	51	57	50	59	52	58	53	57	53	54	51	49	45
18	46	44	48	44	52	45	55	50	59	54	59	51	57	50	58	52	59	53	55	53	54	52	49	46
19	46	43	48	45	51	46	55	50	59	53	58	51	57	50	58	52	59	54	57	52	54	53	47	44
20	45	43	46	41	52	46	55	50	59	53	57	51	56	50	59	53	59	54	57	53	53	50	46	43
21	44	37	-	-	51	47	54	49	59	53	56	50	57	49	57	53	59	53	56	53	50	48	46	42
22	44	37	-	-	51	46	55	49	57	53	56	49	56	50	57	53	58	53	56	53	51	49	46	44
23	48	44	47	44	53	46	54	49	57	52	57	49	56	50	57	53	57	53	54	51	47	46	45	
24	47	45	46	40	53	46	52	48	58	52	57	51	55	50	59	53	57	52	54	53	50	47	47	46
25	47	45	47	43	51	46	53	47	59	52	57	50	56	49	59	52	58	52	56	52	51	50	47	46
26	48	45	46	43	52	46	50	48	60	53	57	50	56	49	59	53	58	53	55	53	51	49	48	47
27	47	46	47	40	52	46	50	48	59	54	58	51	56	49	57	53	58	53	58	53	51	49	49	-
28	46	45	46	44	51	46	51	47	58	53	57	50	55	48	56	51	57	54	59	54	52	51	-	-
29	-	44			49	47	50	46	58	52	57	52	56	49	55	51	55	53	58	54	53	51	-	-
30	-	41			50	45	51	46	56	51	57	50	57	49	55	50	55	54	58	54	52	50	-	-
31	-	41			51	45			56	51			57	50	56	50			58	55			-	-
MAX					53		59		60		59		59		59		59		60		58			
MIN					41		45		47		49		48		48		50		52		47			

-No Data.

YEAR 1952-57**Table 9d. Monthly Maximum and Minimum Water Temperatures at Balls Ferry, 1952-57^{1/ 2/}**

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max																						
1952	46.5	43.1	47.8	44.3	48.3	44.2	51.7	49.5	50.4	47.8	52.7	47.1	54	49.6	56.2	52.4	56.6	53.1	56.7	53.6	53.1	51.5	48.9	47.4	
1953	48.6	47.2	49.2	46.6	52.3	48.9	54.3	50.8	53.6	51.1	55.9	51.7	56.8	51.9	55.6	51.5	56.6	52.8	55.8	52.8	54.3	52.6	52	50.2	
1954	50.5	49.2	50.8	49.2	51.5	48.5	54.4	50.7	56.1	51.1	55.9	51.2	56.6	51.3	55.3	48.3	57.7	53.5	57.4	54.1	55.2	53.6	50	48.7	
1955	47.9	46.2	-	-	51.3	48.2	51.1	47.5	56.7	51.3	56.7	50.9	55.7	50.3	56.2	50.7	57.2	52.5	57.9	54.3	53.8	51.4	50.8	49.7	
1956	48.1	47.6	45.1	44.6	46.9	45.9	53	51.6	53.8	50.2	56.3	50.3	54.3	48.7	53.8	48.8	56.1	52.1	52.7	49.9	51.7	49.5	48.9	47.1	
1957	44.9	43.3	46.9	45.2	48.6	47.1	52.9	50.9	52.5	49.6															

-No Data.

1/ Thermograph type and exact location unknown.

2/ From unpublished USFWS data.

YEAR 1976

Table 9e. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1976-77^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min		
1																	65.5	61	62	60.5	54.5	53				
2																	66	61.5	62	60	56	54				
3																	66	62	61	58	56	53.5				
4																	62	66	62	61	58.5	56	53.5			
5																	62	58	66	62	61	58.5	56	54		
6																	62	59	65.5	62	61.5	58.5	56	54.5		
7																	62.5	59	65	61.5	61	59	56	54		
8																	63	59	65.5	61.5	61	58	55.5	53.5		
9																	63	59	65.5	61.5	60	58	55.5	54		
10																	64	59	64	62	60	57.5	56	53.5		
11																	63.5	59.5	63	62	59.5	57	56.5	55		
12																	64	60	64	61.5	60	57	57	55		
13																	62	60	64	61	59	56.5	56	55.5		
14																	61.5	60	64	61	58.5	56	55.5	55		
15																	62	60	63.5	61	58	56	57	55		
16																	62	60	63	61.5	58	55	57	56		
17																	62	60.5	63.5	61	58	55	57	55.5		
18																	62	60	64	61	57	55	57	55		
19																	64	60	63.5	61	57	54	57	55		
20																	65	60.5	63	60.5	56	54	56	54.5		
21																	64.5	61	62.5	60	56	54	56	54.5		
22																	63.5	62	62.5	60	56.5	54.5	56	55		
23																	65	61	63.5	60	56.5	54	55.5	54.5		
24																	65	61	62.5	60	56	54	55.5	54.5		
25																	65	61	62.5	60	55.5	54	55.5	54.5		
26																	64.5	60.5	62	60	55	53.5	55	52		
27																	65	60.5	61.5	60	55.5	53	52	51.5		
28																	65.5	61	62	60	54.5	52.5	53	51		
29																	65	61	62.5	60	54.5	52	53.5	51		
30																	65	61	62.5	60	54.5	52	54	52		
31																	65.5	61	54.5	53	54.5	53	51			
MAX																			66		62		57			
MIN																			60		52		51			

1/ Palmer thermograph located at Balls Ferry Resort boat dock (river mile 276.2).

2/ From unpublished DFG, Region 1 data.

YEAR 1977

Table 9e. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1976-77, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.						
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min					
1																	61	57	69.5	64	-	-	65	61	61	58.5			
2																	63.5	57	70	64.5	72.5	67	66	62	61	57			
3																	63.5	58	70	64	71	66	66	62	60.5	56.5			
4																	63	57.5	69	64	70.5	66	66	63	59	56			
5																	64	57	69	64	71.5	66	65	63	57	55.5			
6																	65	57.5	69	63	71	66	65	62.5	57.5	54.5			
7																	65	58	68	63	71	65.5	65	62.5	57.5	55			
8																	62	58	65	58.5	69	63	71	-	66	63	56.5	53.5	
9																	60	58	66	59	69	64	-	-	65	63	55.5	53.5	
10																	58	54	65	59	68	64	-	-	65.5	63	56	53	
11																	60	54	66	59	69	64	-	-	65.5	63	56	53	
12																	60	54	66	60	70	64	70	-	65.5	63	55	54	
13																	61	55	66.5	59.5	70	64	69	68	65.5	63	56	55	
14																	61	55	67	59.5	69	64	68	66	65	62	56.5	53.5	
15																	62	54.5	67	61.5	70	63	67	66	64	62	55.5	53	
16																	62	55.5	68.5	61.5	69	63	64	64	62	56	53	53	
17																	60	55	68	61	68.5	64	62	62	63.5	61	55.5	53	
18																	61	55	68	62	69.5	63	65	60	63	61		53	
19																	62	55.5	68	62	69.5	64	60	60	63	61			
20																	62	56	68.5	63	69.5	64	61	-	63	61			
21																	64	57	67	62.5	70	64	-	-	64	61			
22																	63.5	57	68	61	70	64	64	61.5	62	60			
23																	64	58	68	61	70.5	64	65	62	62	60			
24																	64	58	67.5	61	68	64	66	63	62	61			
25																	64	57	68	62	68	63	66	63	61	60			
26																	64	57.5	69	62	68	62	66.5	64	62	61			
27																	64.5	58	69.5	62.5	69	63	66	64	63	58			
28																	65	58.5	69	62	71	65	64	63.5	60	59			
29																	60	58	69	62.5	71	66	64	63	60	59			
30																	57.5	69	63	71	68	64.5	62	60	59				
31																		70.5	63	72	68				61	58.5			
MAX																		70.5		72					66				
MIN																		57		62					58				
-No Data																													

YEAR 1983

Table 9f. Daily Maximum and Minimum Water Temperatures near Balls Ferry, 1983-84^{1/ 2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1						—	52	52	53	51	53	52
2						52	51	52	52	54	52	56
3						52	50	52	52	54	52	56
4						52	51	52	52	54	53	56
5						52	51	53	52	54	53	56
6					56	54	52	53	52	52	54	53
7					54	51	52	52	52	55	54	56
8					51	50	52	51	53	52	56	52
9					51	50	52	51	53	52	56	52
10					51	50	51	53	51	53	56	52
11					51	50	52	51	53	51	56	52
12					51	50	52	51	53	51	56	52
13					—	—	52	51	53	51	56	52
14					—	—	52	51	53	51	56	52
15					—	—	52	51	53	51	56	52
16					—	—	52	51	54	52	56	52
17					—	—	53	51	54	52	57	52
18					—	—	52	51	52	52	57	51
19					—	—	53	51	52	52	57	51
20					—	—	53	52	52	53	56	52
21					—	—	53	51	52	52	57	52
22					—	—	53	51	52	52	57	53
23					—	—	53	51	52	52	57	53
24					—	—	53	51	53	51	57	53
25					—	—	53	51	53	51	57	53
26					—	—	53	51	53	51	57	53
27					—	—	53	51	53	51	57	53
28					—	—	53	51	53	51	57	53
29					—	—	53	51	53	51	57	51
30					—	—	53	51	53	51	57	51
31					—	—	53	51	53	53	57	53
MAX							53	54	54	57	57	53
MIN							50	51	51	51	51	49

—No Data.

1/ Palmer thermograph located on west bank about 1 mile above Balls Ferry bridge.

2/ From unpublished DWR, Northern District data.

YEAR 1984

Table 9f. Daily Maximum and Minimum Water Temperatures near Balls Ferry, 1983-84, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	49	48	48	50	49	53	52	51	51	57	54												
2	49	49	48	48	50	49	53	53	51	51	57	54												
3	49	49	49	47	50	50	53	53	53	51	56	54												
4	49	49	49	48	50	49	53	53	55	53	56	56												
5	49	49	49	49	54	52	53	53	55	53	56	55												
6	49	49	49	49	54	53	53	52	55	53	55	55												
7	49	49	49	48	54	54	53	52	55	53	56	54												
8	49	49	49	49	54	53	52	51	55	53	56	54												
9	49	49	49	49	54	53	51	51	55	54	57	54												
10	49	49	49	48	56	53	51	51	55	54	57	54												
11	48	48	49	49	56	55	51	51	54	54	57	54												
12	48	48	49	49	56	55	52	51	55	53	56	55												
13	48	48	49	48	56	54	52	51	55	53	57	55												
14	48	48	48	47	54	51	53	52	55	53	57	54												
15	48	48	48	47	51	50	54	53	55	53	56	54												
16	48	48	48	47	50	48	54	53	54	53	57	54												
17	48	48	49	48	48	47	53	53	54	53	56	54												
18	48	48	49	48	48	47	53	52	55	53	57	54												
19	48	48	50	49	48	47	52	51	55	54	56	55												
20	48	48	50	50	49	48	53	51	56	54	57	55												
21	48	48	50	50	50	49	53	51	55	54		55												
22	48	48	50	49	50	50	53	52	56	56	54													
23	48	48	49	49	50	50	54	52	56	56	55													
24	48	48	50	49	50	50	54	53	55	54														
25	48	48	50	49	50	50	53	52	56	56	54													
26	48	48	50	48	50	50	52	50	56	56	55													
27	48	48	49	49	51	50	51	50	56	56	55													
28	48	48	49	49	51	50	51	50	56	56	55													
29	48	48	50	49	51	50	51	51	57	57	55													
30	48	48			51	50	51	51	56	56	54													
31	48	48				52	51			56	54													
MAX	49		50		56		54		57															
MIN	48		47		47		50		51															

YEAR 1986

Table 9g. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1986-88^{1/ 2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1					52	50	59	53	56	51	58	53
2					51	50	58	53	57	52	58	53
3					51	50	58	53	58	53	58	53
4					52	49	57	53	57	52	58	54
5					52	50	57	53	57	52	58	54
6					52	49	57	52	57	52	58	54
7					53	49	57	52	56	52	58	54
8					54	49	57	51	57	52	57	54
9					54	50	57	51	57	53	58	54
10					54	50	57	51	57	52	57	54
11					54	49	56	51	58	53	57	53
12					56	49	56	51	57	53	56	53
13					54	51	56	51	58	52	57	53
14					53	50	56	51	58	52	57	53
15					52	51	55	50	56	51	57	53
16					52	50	56	50	56	51	57	53
17					54	50	57	51	56	52	57	53
18					54	50	57	52	55	51	56	54
19					56	51	57	52	55	50	56	53
20					57	52	57	52	55	50	57	53
21					57	52	56	51	55	50	57	53
22					57	52	56	51	56	50	57	53
23					56	51	56	52	56	51	57	53
24					55	50	57	52	56	51	56	53
25					54	50	58	52	56	51	57	54
26					54	50	58	52	54	51	56	53
27					53	50	58	52	55	51	57	54
28					54	50	58	52	56	51	57	54
29					54	49	58	52	56	51	57	53
30					54	50	58	52	56	51	57	53
31						58	52		58	53	57	53
MAX								58	59	58	58	56
MIN								49	50	51	52	50
										53	53	49

1/ Palmer thermograph located on Balls Ferry Resort dock on west bank (river mile 276.3).

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 9g. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1986-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	50	49	48	47	-	-	55	52	51	48	54	48	53	49	58	54	59	54	62	57	55	54	-	-
2	50	48	47	47	-	-	55	52	52	48	55	48	53	50	58	55	59	57	62	58	55	54	-	-
3	49	48	49	46	-	-	54	50	53	48	55	51	53	50	58	56	58	56	62	58	56	53	-	-
4	49	47	49	46	-	-	54	49	53	48	55	51	53	50	57	54	58	55	62	57	56	54	-	-
5	49	47	49	47	-	-	54	49	53	48	55	51	53	50	58	54	58	54	62	58	56	54	-	-
6	49	49	49	47	-	-	52	49	53	48	55	51	53	50	58	54	58	54	61	58	56	55	-	-
7	49	47	50	47	52	48	54	52	52	49	54	51	53	50	58	54	58	54	61	57	57	55	-	-
8	49	47	49	47	50	49	54	50	52	48	55	50	54	51	58	54	58	54	60	57	56	54	-	-
9	49	47	48	48	51	48	54	50	49	48	55	51	54	51	58	54	58	55	60	57	57	55	-	-
10	49	47	49	48	51	50	53	50	52	47	55	51	56	51	59	54	59	55	59	56	56	53	-	-
11	49	48	50	48	50	49	52	48	52	48	55	51	56	53	59	54	60	56	59	56	56	53	-	-
12	48	47	50	48	51	50	52	48	52	48	55	51	56	53	59	54	60	56	59	57	56	54	-	-
13	48	47	-	-	51	49	52	48	52	48	55	51	56	53	60	55	61	57	59	55	56	55	-	-
14	49	47	-	-	51	49	53	49	52	48	55	51	56	53	60	55	62	57	58	55	55	53	-	-
15	48	46	-	-	51	46	53	49	53	48	53	51	56	53	60	55	62	58	58	55	54	52	-	-
16	47	45	-	-	52	48	54	49	53	49	54	51	56	54	60	55	62	57	58	55	55	54	-	-
17	48	46	-	-	52	50	51	49	54	49	54	51	54	53	60	55	61	57	58	54	55	54	-	-
18	49	47	-	-	51	48	51	47	53	49	55	50	56	53	61	56	62	57	57	54	56	54	-	-
19	48	46	-	-	50	47	52	47	53	48	55	50	56	53	61	56	62	57	57	53	56	54	-	-
20	49	47	-	-	50	47	52	48	53	48	54	51	56	53	61	56	63	57	56	53	55	54	-	-
21	49	47	-	-	49	47	52	48	53	49	55	51	55	53	61	56	63	58	56	53	55	53	-	-
22	48	47	-	-	51	46	52	48	53	48	55	50	57	53	61	56	63	58	56	53	55	53	-	-
23	48	48	-	-	51	48	52	48	53	48	55	50	57	53	61	56	63	58	56	54	55	53	-	-
24	48	45	-	-	52	47	52	48	53	48	55	50	57	54	61	57	61	58	57	54	-	53	-	-
25	47	45	-	-	53	49	52	48	52	48	55	51	57	54	62	57	63	58	57	54	-	-	-	-
26	49	47	-	-	54	50	52	48	52	48	55	51	57	54	60	55	62	58	57	54	-	-	-	-
27	48	47	-	-	53	50	52	48	53	48	54	51	58	54	59	55	62	58	57	54	-	-	-	-
28	48	46	-	-	53	50	51	48	52	48	54	50	57	54	59	54	62	57	56	55	-	-	-	-
29	49	47	-	-	54	50	51	49	53	49	54	50	57	54	59	54	62	57	56	54	-	-	-	-
30	49	47	-	-	55	51	51	48	52	49	53	49	57	54	60	56	62	57	56	54	-	-	-	-
31	48	47	-	-	55	51	-	-	53	49	-	-	58	54	59	56	-	-	56	53	-	-	-	-
MAX	50	-	-	-	55	-	54	-	55	-	58	-	62	-	63	-	62	-	-	-	-	-	-	-
MIN	45	-	-	-	47	-	47	-	48	-	49	-	54	-	54	-	54	-	-	-	-	-	-	-

-No Data.

YEAR 1988

Table 9g. Daily Maximum and Minimum Water Temperatures at Balls Ferry, 1986-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	47	45	51	48	52	48	-	-	54	51	57	53	58	54									
2	-	-	46	44	51	48	50	48	-	-	53	51	58	54	58	55									
3	-	-	47	44	51	48	51	48	-	-	56	51	58	54	59	54									
4	-	-	47	45	51	47	51	47	54	50	55	52	57	53	58	54									
5	-	-	46	44	51	48	51	47	53	49	55	51	57	53	58	54									
6	-	-	47	44	52	49	52	48	52	49	54	51	57	53	59	55									
7	-	-	47	44	51	48	-	49	51	49	53	51	58	53	59	55									
8	-	-	48	45	51	48	-	-	50	49	52	51	58	53	60	55									
9	-	-	49	46	51	48	-	-	51	49	54	51	58	54	60	55									
10	-	-	49	46	50	47	-	-	52	49	54	51	58	55	60	55									
11	-	-	50	47	50	46	-	-	53	50	56	51	58	54	60	55									
12	-	-	49	46	50	46	-	-	54	50	57	51	58	55	60	55									
13	47	46	49	46	50	46	-	-	54	50	57	52	58	55	60	55									
14	47	47	49	46	51	46	-	-	55	50	58	52	58	55	59	55									
15	47	46	49	46	51	47	-	-	55	50	57	52	58	55	60	55									
16	47	46	49	46	51	47	-	-	56	51	56	52	58	54	61	56									
17	46	45	48	45	51	48	-	-	55	52	57	53	59	54	62	57									
18	46	44	48	46	51	47	-	-	55	51	57	53	58	54	62	57									
19	46	44	49	46	51	47	-	-	55	50	58	53	58	54	63	58									
20	46	44	50	46	52	48	-	-	55	50	57	53	58	54	62	58									
21	47	44	50	47	52	48	-	-	55	50	57	53	58	55	62	58									
22	48	46	50	47	52	48	-	-	56	50	57	53	58	54	62	58									
23	48	46	50	48	52	49	-	-	55	51	57	53	58	54	62	58									
24	49	46	50	47	52	48	-	-	55	50	57	52	58	54	62	58									
25	48	46	50	47	52	47	-	-	56	51	56	53	57	54	63	58									
26	48	46	50	47	52	48	-	-	55	50	57	53	58	54	59										
27	48	47	50	48	51	47	-	-	55	51	57	53	58	54											
28	48	47	50	48	51	47	-	-	56	51	57	53	58	54											
29	48	46	50	48	51	47	-	-	54	51	56	52	58	53											
30	47	46			51	47	-	-	54	50	57	53	58	54											
31	47	44			51	47	-	-	55	50			58	54											
MAX			50		52						59		59												
MIN			44		47						51		53												

-No Data.

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	27	1988	16.0	60.8	17.5	63.5	15.0	59.0
8	28	1988	16.0	60.8	17.0	62.6	15.0	59.0
8	29	1988	15.5	59.9	17.0	62.6	15.0	59.0
8	30	1988	16.0	60.8	17.0	62.6	15.0	59.0
8	31	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	1	1988	15.5	59.9	17.0	62.6	15.0	59.0
9	2	1988	15.5	59.9	17.0	62.6	15.0	59.0
9	3	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	4	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	5	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	6	1988	15.5	59.9	17.0	62.6	15.0	59.0
9	7	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	8	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	9	1988	16.0	60.8	17.0	62.6	14.5	58.1
9	10	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	11	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	12	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	13	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	14	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	15	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	16	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	17	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	18	1988	15.5	59.9	16.5	61.7	14.5	58.1
9	19	1988	15.0	59.0	16.0	60.8	14.5	58.1
9	20	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	21	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	22	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	23	1988	15.5	59.9	17.0	62.6	15.0	59.0
9	24	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	25	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	26	1988	15.5	59.9	17.0	62.6	14.5	58.1
9	27	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	28	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	29	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	30	1988	16.0	60.8	17.5	63.5	15.0	59.0
10	1	1988	16.0	60.8	17.5	63.5	15.0	59.0
10	2	1988	15.5	59.9	17.0	62.6	15.0	59.0
10	3	1988	15.5	59.9	17.0	62.6	15.0	59.0
10	4	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	5	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	6	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	7	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	8	1988	15.5	59.9	17.0	62.6	15.0	59.0
10	9	1988	15.5	59.9	16.5	61.7	14.5	58.1

1/ Omnidata DP112 thermograph located on Balls Ferry Resort dock, west bank (river mile 276.3).

2/ Unpublished data collected by DWR, Northern District.

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	10	1988	15.5	59.9	16.5	61.7	14.5	58.1
10	11	1988	15.5	59.9	16.5	61.7	14.5	58.1
10	12	1988	15.0	59.0	16.5	61.7	14.5	58.1
10	13	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	14	1988	14.5	58.1	16.0	60.8	14.0	57.2
10	15	1988	14.5	58.1	16.0	60.8	13.5	56.3
10	16	1988	15.0	59.0	16.0	60.8	14.0	57.2
10	17	1988	15.0	59.0	16.0	60.8	14.0	57.2
10	18	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	19	1988	14.0	57.2	15.0	59.0	13.0	55.4
10	20	1988	14.0	57.2	15.0	59.0	13.5	56.3
10	21	1988	14.0	57.2	15.0	59.0	13.0	55.4
10	22	1988	14.0	57.2	14.5	58.1	13.0	55.4
10	23	1988	13.5	56.3	14.5	58.1	13.0	55.4
10	24	1988	13.5	56.3	14.5	58.1	13.0	55.4
10	25	1988	13.5	56.3	14.5	58.1	13.0	55.4
10	26	1988	13.5	56.3	14.0	57.2	13.0	55.4
10	27	1988	13.5	56.3	14.5	58.1	13.0	55.4
10	28	1988	13.5	56.3	14.0	57.2	13.0	55.4
10	29	1988	13.5	56.3	14.0	57.2	12.5	54.5
10	30	1988	13.5	56.3	14.5	58.1	12.5	54.5
10	31	1988	13.5	56.3	14.5	58.1	13.0	55.4
11	1	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	2	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	3	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	4	1988	14.0	57.2	15.0	59.0	13.5	56.3
11	5	1988	13.5	56.3	14.5	58.1	13.0	55.4
11	6	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	7	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	9	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	10	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	11	1988	13.0	55.4	14.0	57.2	13.0	55.4
11	12	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	15	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	17	1988	12.5	54.5	13.5	56.3	11.5	52.7
11	18	1988	12.5	54.5	13.5	56.3	12.0	53.6
11	19	1988	13.5	56.3	14.5	58.1	13.5	56.3
11	20	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	21	1988	12.0	53.6	14.0	57.2	11.5	52.7
11	22	1988	12.0	53.6	13.0	55.4	12.0	53.6
11	23	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	24	1988	10.5	50.9	12.0	53.6	10.0	50.0

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	25	1988	11.5	52.7	12.5	54.5	11.0	51.8
11	26	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	27	1988	12.5	54.5	13.0	55.4	12.0	53.6
11	28	1988	12.5	54.5	13.0	55.4	12.0	53.6
11	29	1988	12.5	54.5	13.0	55.4	11.5	52.7
11	30	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	1	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	2	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	3	1988	12.5	54.5	13.0	55.4	11.5	52.7
12	4	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	5	1988	12.5	54.5	13.5	56.3	12.5	54.5
12	6	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	7	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	8	1988	12.5	54.5	13.5	56.3	12.0	53.6
12	9	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	10	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	11	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	12	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	13	1988	11.5	52.7	12.5	54.5	11.0	51.8
12	14	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	15	1988	11.0	51.8	12.0	53.6	10.5	50.9
12	16	1988	11.0	51.8	12.0	53.6	10.5	50.9
12	17	1988	11.0	51.8	12.0	53.6	10.5	50.9
12	18	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	19	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	20	1988	10.0	50.0	10.5	50.9	9.5	49.1
12	21	1988	9.5	49.1	10.5	50.9	9.0	48.2
12	22	1988	9.0	48.2	10.0	50.0	9.0	48.2
12	23	1988	8.5	47.3	10.0	50.0	8.0	46.4
12	24	1988	8.5	47.3	9.5	49.1	8.5	47.3
12	25	1988	8.0	46.4	9.0	48.2	7.5	45.5
12	26	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	27	1988	8.5	47.3	9.0	48.2	8.5	47.3
12	28	1988	8.5	47.3	9.0	48.2	8.0	46.4
12	29	1988	8.5	47.3	9.0	48.2	8.0	46.4
12	30	1988	8.0	46.4	8.5	47.3	8.0	46.4
12	31	1988	8.0	46.4	9.0	48.2	7.5	45.5

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	2	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	3	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	4	1989	7.5	45.5	9.5	49.1	7.0	44.6
1	5	1989	7.0	44.6	7.5	45.5	6.5	43.7
1	6	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	7	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	8	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	9	1989	7.0	44.6	8.0	46.4	6.0	42.8
1	10	1989	7.0	44.6	8.0	46.4	6.5	43.7
1	11	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	12	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	13	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	14	1989	8.0	46.4	8.5	47.3	7.5	45.5
1	15	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	16	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	17	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	18	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	19	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	20	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	21	1989	8.5	47.3	9.5	49.1	7.0	44.6
1	22	1989	7.0	44.6	8.0	46.4	7.0	44.6
1	23	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	24	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	26	1989	8.5	47.3	9.5	49.1	7.5	45.5
1	27	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	28	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	29	1989	9.0	48.2	10.5	50.9	8.5	47.3
1	30	1989	9.5	49.1	10.0	50.0	9.0	48.2
1	31	1989	9.5	49.1	10.5	50.9	8.5	47.3
2	1	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	2	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	3	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	4	1989	7.5	45.5	8.0	46.4	7.0	44.6
2	5	1989	6.0	42.8	7.0	44.6	5.5	41.9
2	6	1989	6.0	42.8	7.0	44.6	5.5	41.9
2	7	1989	6.5	43.7	7.5	45.5	5.5	41.9
2	8	1989	7.0	44.6	8.0	46.4	6.0	42.8
2	9	1989	7.5	45.5	8.0	46.4	7.0	44.6
2	10	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	11	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	12	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	13	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	14	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	15	1989	8.0	46.4	9.0	48.2	7.0	44.6
2	16	1989	8.5	47.3	9.5	49.1	8.0	46.4

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	17	1989	8.5	47.3	9.5	49.1	8.5	47.3
2	18	1989	8.5	47.3	9.0	48.2	8.5	47.3
2	19	1989	8.5	47.3	9.5	49.1	8.0	46.4
2	20	1989	9.0	48.2	10.0	50.0	8.0	46.4
2	21	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	22	1989	9.0	48.2	9.5	49.1	9.0	48.2
2	23	1989	9.0	48.2	10.0	50.0	8.0	46.4
2	24	1989	8.5	47.3	10.0	50.0	7.5	45.5
2	25	1989	8.5	47.3	9.5	49.1	8.0	46.4
2	26	1989	8.5	47.3	10.0	50.0	7.5	45.5
2	27	1989	8.5	47.3	10.0	50.0	7.5	45.5
2	28	1989	8.5	47.3	9.5	49.1	7.5	45.5
3	1	1989	8.0	46.4	9.0	48.2	7.5	45.5
3	2	1989	8.5	47.3	9.5	49.1	8.0	46.4
3	3	1989	8.0	46.4	9.0	48.2	7.0	44.6
3	4	1989	7.5	45.5	8.5	47.3	7.0	44.6
3	5	1989	7.0	44.6	8.0	46.4	7.0	44.6
3	6	1989	8.0	46.4	9.0	48.2	8.0	46.4
3	7	1989	9.5	49.1	11.0	51.8	9.0	48.2
3	8	1989	10.5	50.9	11.5	52.7	10.5	50.9
3	9	1989	11.0	51.8	12.0	53.6	11.0	51.8
3	10	1989	10.5	50.9	11.5	52.7	10.0	50.0
3	11	1989	11.5	52.7	13.0	55.4	11.0	51.8
3	12	1989	11.0	51.8	12.0	53.6	10.0	50.0
3	13	1989	10.5	50.9	11.5	52.7	9.5	49.1
3	15	1989	10.0	50.0	11.5	52.7	9.0	48.2
3	16	1989	10.5	50.9	11.5	52.7	10.5	50.9
3	17	1989	10.0	50.0	11.0	51.8	9.5	49.1
3	18	1989	9.5	49.1	10.0	50.0	9.0	48.2
3	19	1989	11.0	51.8	13.0	55.4	10.0	50.0
3	20	1989	11.5	52.7	12.5	54.5	10.0	50.0
3	21	1989	11.5	52.7	12.5	54.5	11.5	52.7
3	22	1989	11.5	52.7	12.5	54.5	11.0	51.8
3	23	1989	11.0	51.8	12.5	54.5	11.0	51.8
3	24	1989	11.5	52.7	12.5	54.5	11.0	51.8
3	25	1989	11.0	51.8	12.0	53.6	10.5	50.9
3	26	1989	9.5	49.1	10.5	50.9	9.0	48.2
3	27	1989	10.0	50.0	11.0	51.8	9.5	49.1
3	28	1989	10.0	50.0	11.5	52.7	9.5	49.1
3	29	1989	10.5	50.9	12.0	53.6	9.0	48.2
3	30	1989	10.0	50.0	11.0	51.8	9.0	48.2
3	31	1989	11.0	51.8	12.5	54.5	10.0	50.0
3	1	1989	10.5	50.9	12.0	53.6	10.0	50.0
4	2	1989	10.0	50.0	11.0	51.8	10.0	50.0
4	3	1989	10.5	50.9	12.5	54.5	9.5	49.1
4	4	1989	12.0	53.6	13.5	56.3	10.5	50.9

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
4	5	1989	13.0	55.4	14.5	58.1	12.0	53.6
4	6	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	7	1989	13.5	56.3	15.0	59.0	13.0	55.4
4	8	1989	14.0	57.2	15.5	59.9	13.0	55.4
4	10	1989	13.5	56.3	14.5	58.1	13.0	55.4
4	11	1989	13.5	56.3	15.0	59.0	12.5	54.5
4	12	1989	13.5	56.3	14.5	58.1	13.0	55.4
4	13	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	14	1989	13.5	56.3	14.5	58.1	13.0	55.4
4	15	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	16	1989	13.5	56.3	15.0	59.0	13.0	55.4
4	17	1989	13.5	56.3	15.0	59.0	13.0	55.4
4	18	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	19	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	20	1989	13.5	56.3	14.5	58.1	12.5	54.5
4	21	1989	12.0	53.6	13.5	56.3	11.5	52.7
4	22	1989	11.0	51.8	12.0	53.6	10.5	50.9
4	23	1989	10.0	50.0	11.5	52.7	9.5	49.1
4	24	1989	10.0	50.0	11.0	51.8	9.0	48.2
4	25	1989	10.0	50.0	10.5	50.9	9.5	49.1
4	26	1989	10.5	50.9	12.5	54.5	9.5	49.1
4	27	1989	11.5	52.7	13.0	55.4	10.0	50.0
4	28	1989	11.5	52.7	13.0	55.4	10.0	50.0
4	29	1989	11.5	52.7	13.0	55.4	10.0	50.0
4	30	1989	10.5	50.9	12.0	53.6	10.0	50.0
5	1	1989	11.0	51.8	13.0	55.4	9.5	49.1
5	2	1989	10.5	50.9	12.0	53.6	9.5	49.1
5	3	1989	11.0	51.8	13.0	55.4	10.0	50.0
5	4	1989	11.5	52.7	13.0	55.4	10.0	50.0
5	5	1989	11.5	52.7	13.0	55.4	10.0	50.0
5	6	1989	11.0	51.8	12.5	54.5	10.0	50.0
5	7	1989	11.0	51.8	13.0	55.4	9.5	49.1
5	8	1989	10.5	50.9	12.0	53.6	9.5	49.1
5	9	1989	9.5	49.1	10.0	50.0	9.5	49.1
5	10	1989	9.0	48.2	10.0	50.0	9.0	48.2
5	11	1989	10.5	50.9	12.5	54.5	9.0	48.2
5	12	1989	10.5	50.9	12.5	54.5	9.5	49.1
5	13	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	14	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	15	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	16	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	17	1989	10.5	50.9	12.5	54.5	9.0	48.2
5	18	1989	11.0	51.8	13.0	55.4	9.5	49.1
5	19	1989	11.0	51.8	13.0	55.4	9.5	49.1
5	20	1989	10.5	50.9	12.0	53.6	9.0	48.2
5	21	1989	10.0	50.0	12.0	53.6	9.0	48.2

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
5	22	1989	10.0	50.0	11.5	52.7	9.0	48.2
5	23	1989	10.0	50.0	11.0	51.8	9.0	48.2
5	24	1989	9.5	49.1	11.0	51.8	9.0	48.2
5	25	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	26	1989	10.5	50.9	12.5	54.5	9.0	48.2
5	28	1989	10.0	50.0	12.0	53.6	9.0	48.2
5	29	1989	10.5	50.9	12.5	54.5	9.0	48.2
5	30	1989	10.5	50.9	12.5	54.5	9.5	49.1
5	31	1989	11.0	51.8	13.0	55.4	9.5	49.1
6	1	1989	11.0	51.8	13.0	55.4	9.5	49.1
6	2	1989	11.0	51.8	13.0	55.4	9.5	49.1
6	3	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	4	1989	11.0	51.8	12.5	54.5	10.0	50.0
6	5	1989	10.5	50.9	11.5	52.7	10.0	50.0
6	6	1989	10.5	50.9	12.5	54.5	10.0	50.0
6	7	1989	11.5	52.7	13.5	56.3	10.0	50.0
6	8	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	9	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	10	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	11	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	12	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	13	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	14	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	15	1989	10.5	50.9	11.5	52.7	10.5	50.9
6	16	1989	11.0	51.8	12.5	54.5	9.5	49.1
6	17	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	18	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	19	1989	11.0	51.8	12.5	54.5	10.0	50.0
6	20	1989	11.0	51.8	12.5	54.5	10.0	50.0
6	21	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	22	1989	11.5	52.7	13.5	56.3	10.0	50.0
6	23	1989	11.5	52.7	13.5	56.3	10.5	50.9
6	24	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	25	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	26	1989	11.5	52.7	13.0	55.4	10.0	50.0
6	27	1989	11.0	51.8	13.0	55.4	10.0	50.0
6	28	1989	10.5	50.9	11.0	51.8	10.0	50.0
6	29	1989	10.0	50.0	11.0	51.8	10.0	50.0
6	30	1989	10.5	50.9	12.0	53.6	10.0	50.0
7	1	1989	11.0	51.8	12.5	54.5	10.0	50.0
7	2	1989	11.0	51.8	13.0	55.4	10.0	50.0
7	3	1989	11.5	52.7	13.0	55.4	10.0	50.0
7	4	1989	11.5	52.7	13.5	56.3	10.5	50.9
7	5	1989	11.5	52.7	13.5	56.3	10.5	50.9
7	6	1989	12.0	53.6	13.5	56.3	10.5	50.9
7	7	1989	12.0	53.6	13.5	56.3	11.0	51.8

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
7	8	1989	12.0	53.6	14.0	57.2	11.0	51.8
7	9	1989	12.5	54.5	14.0	57.2	11.0	51.8
7	10	1989	12.5	54.5	14.0	57.2	11.0	51.8
7	11	1989	12.0	53.6	14.0	57.2	11.0	51.8
7	12	1989	12.5	54.5	14.0	57.2	11.0	51.8
7	13	1989	12.5	54.5	22.0	71.6	11.0	51.8
7	14	1989	12.0	53.6	14.0	57.2	11.0	51.8
7	15	1989	12.0	53.6	13.5	56.3	11.0	51.8
7	16	1989	12.5	54.5	14.0	57.2	11.0	51.8
7	17	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	18	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	19	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	20	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	21	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	22	1989	12.0	53.6	13.5	56.3	11.0	51.8
7	23	1989	12.0	53.6	13.5	56.3	11.0	51.8
7	24	1989	12.0	53.6	13.5	56.3	11.5	52.7
7	25	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	26	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	27	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	28	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	29	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	30	1989	12.5	54.5	14.0	57.2	12.0	53.6
7	31	1989	12.5	54.5	14.0	57.2	11.5	52.7
8	1	1989	12.5	54.5	13.5	56.3	11.5	52.7
8	2	1989	12.5	54.5	14.0	57.2	11.5	52.7
8	3	1989	12.5	54.5	14.5	58.1	11.5	52.7
8	4	1989	13.0	55.4	14.5	58.1	11.5	52.7
8	5	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	6	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	7	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	8	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	9	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	10	1989	13.0	55.4	15.0	59.0	12.5	54.5
8	11	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	12	1989	13.0	55.4	15.0	59.0	12.0	53.6
8	13	1989	13.5	56.3	15.0	59.0	12.0	53.6
8	14	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	15	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	16	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	17	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	18	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	19	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	20	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	21	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	22	1989	13.5	56.3	14.0	57.2	13.0	55.4

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	23	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	24	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	25	1989	13.5	56.3	15.0	59.0	12.0	53.6
8	26	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	27	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	28	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	29	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	30	1989	13.5	56.3	14.5	58.1	12.5	54.5
8	31	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	1	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	2	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	3	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	4	1989	13.5	56.3	14.5	58.1	12.5	54.5
9	5	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	6	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	7	1989	13.5	56.3	14.5	58.1	12.5	54.5
9	8	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	9	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	10	1989	13.5	56.3	15.0	59.0	13.0	55.4
9	11	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	12	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	13	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	14	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	15	1989	13.5	56.3	15.0	59.0	12.5	54.5
9	16	1989	13.0	55.4	13.5	56.3	13.0	55.4
9	17	1989	13.5	56.3	14.0	57.2	13.5	56.3
9	18	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	19	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	20	1989	14.5	58.1	16.0	60.8	13.5	56.3
09	22	1989	15.0	59.0	16.0	60.8	14.0	57.2
09	23	1989	15.0	59.0	16.0	60.8	14.0	57.2
09	24	1989	15.0	59.0	16.0	60.8	14.0	57.2
09	25	1989	14.5	58.1	15.5	59.9	13.5	56.3
09	26	1989	14.0	57.2	15.0	59.0	13.5	56.3
09	27	1989	14.5	58.1	15.5	59.9	13.5	56.3
09	28	1989	14.5	58.1	15.5	59.9	13.5	56.3
09	29	1989	14.5	58.1	15.0	59.0	14.0	57.2
09	30	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	01	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	02	1989	14.0	57.2	15.0	59.0	14.0	57.2
10	03	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	04	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	05	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	06	1989	13.5	56.3	15.0	59.0	13.0	55.4
10	07	1989	14.0	57.2	15.5	59.9	13.0	55.4
10	08	1989	14.0	57.2	15.5	59.9	13.5	56.3

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	09	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	10	1989	14.5	58.1	16.0	60.8	14.0	57.2
10	11	1989	15.0	59.0	16.0	60.8	14.0	57.2
10	12	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	13	1989	14.5	58.1	15.5	59.9	13.5	56.3
10	14	1989	14.0	57.2	15.5	59.9	13.5	56.3
10	15	1989	14.0	57.2	15.0	59.0	13.0	55.4
10	16	1989	13.5	56.3	15.0	59.0	13.0	55.4
10	17	1989	13.5	56.3	15.0	59.0	13.0	55.4
10	18	1989	13.5	56.3	14.5	58.1	12.5	54.5
10	19	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	20	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	21	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	22	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	23	1989	13.0	55.4	14.5	58.1	13.0	55.4
10	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	25	1989	13.0	55.4	14.0	57.2	12.5	54.5
10	26	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	27	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	28	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	29	1989	13.0	55.4	14.0	57.2	12.5	54.5
10	30	1989	13.0	55.4	14.0	57.2	12.5	54.5
10	31	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	01	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	02	1989	13.5	56.3	14.5	58.1	12.5	54.5
11	03	1989	13.5	56.3	15.0	59.0	13.0	55.4
11	04	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	05	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	06	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	07	1989	13.5	56.3	15.0	59.0	13.0	55.4
11	08	1989	14.0	57.2	15.0	59.0	13.0	55.4
11	09	1989	14.0	57.2	15.0	59.0	13.0	55.4
11	10	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	11	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	12	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	13	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	14	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	15	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	16	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	17	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	18	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	19	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	20	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	21	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	22	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	23	1989	13.0	55.4	13.5	56.3	13.0	55.4

Table 9h. Daily Mean, Maximum, and Minimum Water Temperatures at Balls Ferry, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	24	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	25	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	26	1989	12.5	54.5	13.5	56.3	12.0	53.6
11	27	1989	12.5	54.5	13.5	56.3	12.5	54.5
11	28	1989	12.5	54.5	13.5	56.3	12.0	53.6
11	29	1989	12.5	54.5	13.5	56.3	12.0	53.6
11	30	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	01	1989	12.5	54.5	13.5	56.3	12.0	53.6
12	02	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	03	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	04	1989	12.5	54.5	13.5	56.3	12.0	53.6
12	05	1989	12.5	54.5	13.5	56.3	12.5	54.5
12	06	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	07	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	08	1989	12.0	53.6	12.5	54.5	11.5	52.7
12	09	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	10	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	11	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	12	1989	11.0	51.8	12.0	53.6	10.5	50.9
12	13	1989	11.5	52.7	12.0	53.6	10.5	50.9
12	14	1989	11.5	52.7	12.0	53.6	10.5	50.9
12	15	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	16	1989	11.0	51.8	12.0	53.6	10.5	50.9
12	17	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	18	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	19	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	20	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	21	1989	10.0	50.0	11.0	51.8	10.0	50.0
12	22	1989	10.5	50.9	11.0	51.8	10.5	50.9
12	23	1989	10.0	50.0	11.0	51.8	10.0	50.0

YEAR 1976

Table 10a. Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1976^{1/ 2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1								62	60	67	65	65
2								62	60	67	65	64
3								62	61	67	65	63
4								63	61	67	65	62
5								63	61	67	65	
6								62	61	67	65	
7								63	61	66	64	
8								63	61	67	64	
9								63	61	67	64	
10								64	62	67	64	
11								64	62	66	65	
12								64	62	65	65	
13								62	62	66	64	
14								62	62	66	64	
15								62	62	66	64	
16								64	61	65	64	
17								64	63	65	64	
18								64	63	64	63	
19								65	63	64	63	
20								66	64	64	63	
21								66	64	65	63	
22							61		65	64	66	63
23							61	59	66	64	65	65
24							62	59	67	64	65	65
25							61	59	67	64	65	65
26							62	60	67	65	65	65
27							62	60	67	64	65	64
28							61.5	60	67	64	65	65
29							62	60	67	65	65	-
30							62	60	67	64	65	64
31							62	60	67	64		
MAX										67		
MIN										60		
-No Data.												

1/ Thermograph type and exact location unknown (river mile 266.7).

2/ From unpublished DWR, Northern District data.

YEAR 1986

Table 10b. Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1986-88^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1									61	55	-	-	58	53	58	53	56	54	55	53	53	53	50	
2									60	56	-	-	58	53	59	54	56	53	55	52	53	53	51	
3									60	55	-	-	59	53	59	54	57	53	56	52	53	53	51	
4									59	55	-	-	58	53	59	54	58	54	56	53	52	52	51	
5									58	55	-	-	58	53	60	54	59	55	55	53	52	52	51	
6									58	55	-	-	58	53	60	55	59	55	54	52	54	52	52	
7									59	54	-	-	58	53	60	56	59	55	54	51	53	51	51	
8									58	54	-	-	58	53	59	55	59	55	53	51	53	50		
9									58	54	-	-	58	52	59	55	59	55	54	51	53	50		
10									58	53	-	-	58	53	59	55	59	55	55	52	52	49		
11									58	53	-	-	58	53	59	55	58	54	55	52	51	49		
12									58	53	-	-	59	53	57	55	57	53	55	52	51	49		
13									58	53	-	-	58	53	57	54	57	53	54	52	50	50		
14									58	54	-	-	58	53	57	54	57	53	53	52	52	50		
15									58	53	-	-	57	53	55	53	57	54	54	51	52	51		
16									58	53	-	-	57	52	55	53	56	54	54	51	52	49		
17									58	53	57	52	57	53	57	53	55	54	54	51	52	50		
18									57	53	57	52	58	53	54	53	56	53	54	52	51	50		
19									57	52	57	52	58	53	57	53	57	54	55	53	52	51		
20									58	54	57	52	58	52	57	52	58	54	57	54	53	51	52	50
21									57	53	58	52	58	52	58	53	57	54	56	54	54	52	51	50
22									57	53	58	52	58	53	57	52	58	54	57	54	54	51	51	51
23									57	53	58	52	57	52	57	52	56	54	54	54	51	52	50	
24									58	53	58	52	57	52	57	52	56	54	55	54	54	51	52	50
25									59	54	58	52	57	52	58	52	55	53	57	54	53	51	50	49
26									59	54	55	53	57	52	56	52	54	53	57	54	53	51	52	50
27									60	55	57	53	57	52	58	52	56	52	57	55	53	51	51	49
28									60	55	57	53	57	52	58	52	57	57	55	54	52	51	50	
29									60	55	-	-	57	52	58	53	57	53	54	53	53	51	51	50
30									60	55	-	-	58	52	58	53	57	53	56	53	53	50	50	49
31									60	55			59	53	58	53	55	53	55	53	50	50	50	50
MAX									60						59		60		59		56		54	
MIN									53						52		52		53		50		49	
-No Data.																								

1/ Palmer thermograph located on west $\frac{1}{3}$ bridge abutment.

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 10b. Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1986-88, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1	50	50	47	47	50	47	58	55	52	48	53	48
2	50	49	47	46	49	48	57	55	54	48	53	48
3	50	48	49	46	50	48	55	53	56	50	55	53
4	49	48	49	47	50	48	55	52	56	50	55	53
5	50	48	50	47	51	49	56	52	57	50	55	53
6	50	49	50	47	52	49	54	52	57	50	55	52
7	49	48	51	48	52	50	56	51	56	51	58	52
8	48	47	50	48	50	48	57	52	56	51	58	52
9	50	47	49	49	52	48	57	54	52	51	55	53
10	50	47	49	49	51	50	56	53	57	50	58	54
11	48	48	50	49	50	50	55	50	57	50	58	55
12	48	47	50	48	51	50	55	50	55	49	58	52
13	49	46	52	50	51	49	55	50	56	51	59	55
14	49	47	49	47	51	49	56	51	55	49	58	52
15	48	45	49	47	50	47	57	52	57	50	58	55
16	46	44	48	46	51	48	57	52	56	51	58	55
17	48	45	49	47	51	50	57	52	56	51	59	53
18	48	46	49	47	51	49	53	48	55	50	55	53
19	48	46	49	47	50	47	54	48	55	49	56	53
20	49	46	49	47	49	47	54	48	55	50	56	53
21	48	46	49	46	48	46	55	49	55	50	55	53
22	47	46	49	46	50	44	54	49	56	50	57	53
23	47	46	48	46	51	49	55	48	55	49	56	53
24	47	45	47	45	52	48	55	49	54	49	57	53
25	46	44	47	44	54	50	55	49	52	49	56	54
26	49	46	48	44	55	52	56	49	52	49	56	53
27	48	47	49	46	54	51	54	50	53	49	55	50
28	48	46	49	46	54	51	54	49	54	50	59	55
29	49	48			55	51	53	49	54	50	59	55
30	49	47			56	52	52	48	52	49	60	55
31	48	46			57	54		53	48		57	53
	MAX	50	52	57	58	57	57	58	58	62	63	62
	MIN	44	44	46	48	48	48	50	50	53	53	50

YEAR 1988

Table 10b. Daily Maximum and Minimum Water Temperatures at Jellys Ferry Bridge, 1986-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	45	43	48	46	52	49	53	48	55	50	54	52	59	53	60	55									
2	46	44	47	44	52	48	52	49	54	50	58	52	60	54	60	54									
3	46	43	48	44	50	49	52	49	55	50	58	54	60	54	61	54									
4	45	43	47	45	51	48	53	48	53	50	53	52	59	54	60	54									
5	48	45	47	43	51	50	54	48	53	49	54	51	59	53	59	55									
6	49	47	47	44	53	50	54	49	51	49	53	50	59	53	60	54									
7	48	47	48	44	53	50	54	50	51	49	52	50	59	53	60	54									
8	47	46	50	47	52	50	53	48	53	50	55	50	60	54	61	55									
9	48	46	50	48	51	49	54	48	54	50	55	51	61	54	61	55									
10	50	48	51	48	50	47	55	48	55	50	57	52	61	55	61	55									
11	49	46	52	48	50	47	55	49	56	50	59	52	60	55	61	55									
12	46	45	51	48	50	46	54	49	55	51	59	54	60	55	60	55									
13	47	46	50	48	51	46	51	49	56	50	59	54	-	55	60	54									
14	48	47	51	48	51	47	51	49	57	51	59	54	-	-	60	55									
15	48	47	51	49	51	48	54	48	58	52	59	54	61	56	61	55									
16	48	47	50	48	51	47	52	50	53	51	59	54	62	56											
17	47	46	50	46	53	47	53	50	56	51	59	54	63	57											
18	46	44	50	48	53	48	52	49	57	51	61	55	63	56											
19	46	44	51	47	53	49	51	49	58	53	60	55	63	56											
20	47	44	52	48	53	49	52	49	59	53	59	54	63	56											
21	48	45	52	48	53	50	53	50	59	53	59	54	63	56											
22	49	46	53	48	54	50	51	49	57	53	60	54	63	56											
23	50	47	51	49	54	51	55	49	58	53	60	54	62	55											
24	50	48	51	48	54	49	54	50	58	53	61	55	61	55											
25	49	47	51	48	54	50	55	51	57	52	59	55	60	55											
26	49	47	52	48	55	50	56	50	57	53	59	55	61	55											
27	50	48	51	49	52	49	56	51	57	53	59	54	61	55											
28	49	48	52	50	52	48	55	52	54	52	58	53	61	55											
29	49	48	50	49	53	48	54	51	55	50	58	53	61	54											
30	48	46			52	48	54	50	56	50	59	53	60	54											
31	47	45			53	48			54	51			60	54											
MAX	50		53		55		56		59		61														
MIN	43		43		46		48		49		50														

-No Data.

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989 1/2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	17	1988	15.5	59.9	17.5	63.5	14.5	58.1
8	18	1988	16.0	60.8	17.5	63.5	15.0	59.0
8	19	1988	16.0	60.8	18.0	64.4	15.0	59.0
8	20	1988	16.5	61.7	18.0	64.4	15.5	59.9
8	21	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	22	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	23	1988	16.5	61.7	18.0	64.4	15.5	59.9
8	24	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	25	1988	16.5	61.7	18.0	64.4	15.5	59.9
8	26	1988	16.5	61.7	18.0	64.4	15.5	59.9
8	27	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	28	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	29	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	30	1988	16.5	61.7	17.5	63.5	15.5	59.9
8	31	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	1	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	2	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	3	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	4	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	5	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	6	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	7	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	8	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	9	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	10	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	11	1988	15.5	59.9	16.5	61.7	15.0	59.0
9	12	1988	15.5	59.9	16.5	61.7	14.5	58.1
9	13	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	14	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	15	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	16	1988	16.5	61.7	17.5	63.5	15.5	59.9
9	17	1988	16.0	60.8	17.0	62.6	15.5	59.9
9	18	1988	15.5	59.9	16.5	61.7	15.0	59.0
9	19	1988	15.0	59.0	16.0	60.8	15.0	59.0
9	20	1988	15.5	59.9	16.5	61.7	14.5	58.1
9	21	1988	15.5	59.9	17.0	62.6	15.0	59.0
9	22	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	23	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	24	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	25	1988	16.0	60.8	16.5	61.7	15.0	59.0
9	26	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	27	1988	16.0	60.8	17.0	62.6	15.0	59.0
9	28	1988	16.0	60.8	17.5	63.5	15.0	59.0
9	29	1988	16.0	60.8	17.5	63.5	15.5	59.9

1/ Omnidata DP112 thermograph located on west 1/3 bridge abutment.

2/ Unpublished data collected by DWR, Northern District.

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	30	1988	16.5	61.7	17.5	63.5	15.5	59.9
10	1	1988	16.5	61.7	17.5	63.5	15.5	59.9
10	2	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	3	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	4	1988	16.0	60.8	16.5	61.7	15.0	59.0
10	5	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	6	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	7	1988	16.0	60.8	17.0	62.6	15.5	59.9
10	8	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	9	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	10	1988	15.5	59.9	16.5	61.7	14.5	58.1
10	11	1988	15.5	59.9	16.5	61.7	14.5	58.1
10	12	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	13	1988	15.0	59.0	16.0	60.8	14.5	58.1
10	14	1988	15.0	59.0	16.0	60.8	14.5	58.1
10	15	1988	15.0	59.0	16.0	60.8	14.5	58.1
10	16	1988	15.5	59.9	16.0	60.8	15.0	59.0
10	17	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	18	1988	15.0	59.0	15.5	59.9	14.5	58.1
10	19	1988	14.5	58.1	15.5	59.9	14.5	58.1
10	20	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	21	1988	14.5	58.1	15.0	59.0	14.0	57.2
10	22	1988	14.0	57.2	15.0	59.0	14.0	57.2
10	23	1988	14.0	57.2	14.5	58.1	13.5	56.3
10	24	1988	14.0	57.2	14.5	58.1	13.5	56.3
10	25	1988	14.0	57.2	15.0	59.0	13.5	56.3
10	26	1988	13.5	56.3	14.5	58.1	13.5	56.3
10	27	1988	13.5	56.3	14.5	58.1	13.5	56.3
10	28	1988	13.5	56.3	14.0	57.2	13.5	56.3
10	29	1988	13.5	56.3	14.0	57.2	13.0	55.4
10	30	1988	13.5	56.3	14.0	57.2	13.0	55.4
10	31	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	1	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	2	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	3	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	4	1988	14.0	57.2	15.0	59.0	14.0	57.2
11	5	1988	14.0	57.2	14.5	58.1	13.5	56.3
11	6	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	7	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	9	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	10	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	11	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	12	1988	13.5	56.3	13.5	56.3	13.5	56.3
11	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1988	12.5	54.5	13.0	55.4	12.0	53.6

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	15	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	17	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	18	1988	12.5	54.5	13.0	55.4	12.0	53.6
11	19	1988	13.0	55.4	14.0	57.2	13.0	55.4
11	20	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	21	1988	12.0	53.6	13.5	56.3	11.5	52.7
11	22	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	23	1988	11.0	51.8	11.5	52.7	10.5	50.9
11	24	1988	10.0	50.0	11.0	51.8	10.0	50.0
11	25	1988	11.0	51.8	12.0	53.6	10.5	50.9
11	26	1988	11.0	51.8	12.0	53.6	11.0	51.8
11	27	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	28	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	29	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	30	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	1	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	2	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	3	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	4	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	5	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	6	1988	12.0	53.6	13.0	55.4	12.0	53.6
12	7	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	8	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	9	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	10	1988	12.0	53.6	13.0	55.4	12.0	53.6
12	11	1988	12.0	53.6	13.0	55.4	12.0	53.6
12	12	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	13	1988	11.5	52.7	12.5	54.5	11.0	51.8
12	14	1988	10.5	50.9	11.0	51.8	10.0	50.0
12	15	1988	10.5	50.9	11.5	52.7	10.5	50.9
12	16	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	17	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	18	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	19	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	20	1988	10.0	50.0	10.5	50.9	9.5	49.1
12	21	1988	9.5	49.1	10.5	50.9	9.0	48.2
12	22	1988	9.0	48.2	9.5	49.1	8.5	47.3
12	23	1988	8.0	46.4	9.5	49.1	8.0	46.4
12	24	1988	8.0	46.4	8.5	47.3	8.0	46.4
12	25	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	26	1988	7.5	45.5	8.0	46.4	7.0	44.6
12	27	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	28	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	29	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	30	1988	7.5	45.5	8.5	47.3	7.5	45.5
12	31	1988	7.5	45.5	8.5	47.3	7.0	44.6

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	8.0	46.4	9.0	48.2	8.0	46.4
1	2	1989	8.0	46.4	9.0	48.2	8.0	46.4
1	3	1989	8.0	46.4	8.5	47.3	8.0	46.4
1	4	1989	7.5	45.5	8.5	47.3	6.5	43.7
1	5	1989	6.5	43.7	7.0	44.6	6.0	42.8
1	6	1989	7.0	44.6	8.0	46.4	7.0	44.6
1	7	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	8	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	9	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	10	1989	6.5	43.7	7.5	45.5	6.5	43.7
1	11	1989	7.0	44.6	8.0	46.4	6.5	43.7
1	12	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	13	1989	7.0	44.6	8.0	46.4	7.0	44.6
1	14	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	15	1989	8.0	46.4	8.5	47.3	7.5	45.5
1	16	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	17	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	18	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	19	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	20	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	21	1989	8.5	47.3	9.5	49.1	7.5	45.5
1	22	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	23	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	24	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	26	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	27	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	28	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	29	1989	9.0	48.2	10.0	50.0	8.5	47.3
1	30	1989	9.5	49.1	10.0	50.0	9.5	49.1
1	31	1989	9.5	49.1	10.0	50.0	9.0	48.2
2	1	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	2	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	3	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	4	1989	7.0	44.6	8.0	46.4	6.5	43.7
2	5	1989	5.5	41.9	6.5	43.7	5.0	41.0
2	6	1989	5.5	41.9	6.5	43.7	5.0	41.0
2	7	1989	6.0	42.8	7.0	44.6	5.5	41.9
2	8	1989	6.5	43.7	7.5	45.5	6.0	42.8
2	9	1989	7.0	44.6	7.5	45.5	7.0	44.6
2	10	1989	7.5	45.5	8.0	46.4	7.5	45.5
2	11	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	12	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	13	1989	8.0	46.4	9.0	48.2	8.0	46.4
2	14	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	15	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	16	1989	9.0	48.2	10.0	50.0	8.5	47.3

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	17	1989	9.0	48.2	9.5	49.1	9.0	48.2
2	18	1989	8.5	47.3	9.0	48.2	8.5	47.3
2	19	1989	8.5	47.3	9.5	49.1	8.5	47.3
2	20	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	21	1989	9.5	49.1	10.0	50.0	9.0	48.2
2	22	1989	9.5	49.1	10.0	50.0	9.0	48.2
2	23	1989	9.5	49.1	10.0	50.0	9.0	48.2
2	24	1989	9.0	48.2	10.0	50.0	8.0	46.4
2	25	1989	8.5	47.3	9.5	49.1	8.5	47.3
2	26	1989	9.0	48.2	10.0	50.0	8.0	46.4
2	27	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	28	1989	9.0	48.2	10.0	50.0	8.0	46.4
3	1	1989	8.0	46.4	9.5	49.1	8.0	46.4
			-	-	-	-	-	-
7	15	1989	12.5	54.5	14.0	57.2	11.5	52.7
7	16	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	17	1989	13.0	55.4	15.0	59.0	12.0	53.6
7	18	1989	13.5	56.3	15.0	59.0	12.0	53.6
7	19	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	20	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	21	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	22	1989	12.5	54.5	14.5	58.1	11.5	52.7
7	23	1989	12.5	54.5	14.5	58.1	11.5	52.7
7	24	1989	12.5	54.5	14.5	58.1	11.5	52.7
7	25	1989	12.5	54.5	14.5	58.1	11.5	52.7
7	26	1989	12.5	54.5	14.5	58.1	11.5	52.7
7	27	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	28	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	29	1989	13.0	55.4	14.5	58.1	11.5	52.7
7	30	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	31	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	1	1989	12.5	54.5	14.5	58.1	11.5	52.7
8	2	1989	13.0	55.4	14.5	58.1	11.5	52.7
8	3	1989	13.0	55.4	14.5	58.1	11.5	52.7
8	4	1989	13.0	55.4	15.0	59.0	12.0	53.6
8	5	1989	13.5	56.3	15.0	59.0	12.0	53.6
8	6	1989	13.5	56.3	15.0	59.0	12.0	53.6
8	7	1989	13.5	56.3	15.0	59.0	12.0	53.6
8	8	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	9	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	10	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	11	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	12	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	13	1989	14.0	57.2	15.5	59.9	12.5	54.5
8	14	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	15	1989	14.0	57.2	15.5	59.9	13.0	55.4

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	16	1989	14.0	57.2	15.5	59.9	12.5	54.5
8	17	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	18	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	19	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	20	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	21	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	22	1989	13.5	56.3	15.0	59.0	13.5	56.3
8	23	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	24	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	25	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	26	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	27	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	28	1989	14.5	58.1	16.0	60.8	13.0	55.4
8	29	1989	14.5	58.1	15.5	59.9	13.5	56.3
8	30	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	31	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	1	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	2	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	3	1989	14.0	57.2	15.0	59.0	12.5	54.5
9	4	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	5	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	6	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	7	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	8	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	9	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	10	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	11	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	12	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	13	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	14	1989	14.0	57.2	15.0	59.0	13.0	55.4
9	15	1989	14.0	57.2	15.5	59.9	13.0	55.4
9	16	1989	13.5	56.3	14.0	57.2	13.5	56.3
9	17	1989	13.5	56.3	14.5	58.1	13.5	56.3
9	18	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	19	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	20	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	22	1989	15.5	59.9	16.5	61.7	14.5	58.1
9	23	1989	15.5	59.9	16.5	61.7	15.0	59.0
9	24	1989	15.5	59.9	16.5	61.7	15.0	59.0
9	25	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	26	1989	15.0	59.0	15.5	59.9	14.5	58.1
9	27	1989	15.0	59.0	15.5	59.9	14.0	57.2
9	28	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	29	1989	15.0	59.0	15.5	59.9	14.5	58.1
9	30	1989	15.0	59.0	16.0	60.8	14.0	57.2
10	1	1989	15.0	59.0	15.5	59.9	14.5	58.1

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	2	1989	14.5	58.1	15.5	59.9	14.5	58.1
10	3	1989	14.0	57.2	15.0	59.0	14.0	57.2
10	4	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	5	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	6	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	7	1989	14.5	58.1	15.5	59.9	14.0	57.2
10	8	1989	14.5	58.1	15.5	59.9	14.0	57.2
10	9	1989	15.0	59.0	15.5	59.9	14.5	58.1
10	10	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	11	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	12	1989	15.0	59.0	15.5	59.9	14.5	58.1
10	13	1989	14.5	58.1	15.5	59.9	14.0	57.2
10	14	1989	14.5	58.1	15.0	59.0	14.0	57.2
10	15	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	16	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	17	1989	14.0	57.2	15.0	59.0	13.0	55.4
10	18	1989	14.0	57.2	14.5	58.1	13.0	55.4
10	19	1989	13.5	56.3	14.5	58.1	13.5	56.3
10	20	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	21	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	22	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	23	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	25	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	26	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	27	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	28	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	29	1989	12.5	54.5	13.5	56.3	12.0	53.6
10	30	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	31	1989	13.0	55.4	13.5	56.3	12.5	54.5
11	1	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	2	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	3	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	4	1989	14.0	57.2	14.5	58.1	13.0	55.4
11	5	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	6	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	7	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	8	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	9	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	10	1989	14.0	57.2	14.5	58.1	13.0	55.4
11	11	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	12	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	13	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	14	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	15	1989	13.0	55.4	13.5	56.3	12.5	54.5
11	16	1989	13.5	56.3	14.0	57.2	13.0	55.4

Table 10c. Daily Mean, Maximum, and Minimum Water Temperatures at Jellys Ferry Bridge, 1988-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	17	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	18	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	19	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	20	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	21	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	22	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	23	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	25	1989	12.5	54.5	13.0	55.4	12.5	54.5
11	26	1989	12.0	53.6	13.0	55.4	12.0	53.6
11	27	1989	12.5	54.5	13.0	55.4	12.0	53.6
11	28	1989	12.0	53.6	13.0	55.4	11.5	52.7
11	29	1989	12.0	53.6	12.5	54.5	11.5	52.7
11	30	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	1	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	2	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	3	1989	12.0	53.6	12.5	54.5	11.5	52.7
12	4	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	5	1989	12.5	54.5	13.0	55.4	12.0	53.6
12	6	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	7	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	8	1989	11.5	52.7	12.0	53.6	11.5	52.7
12	9	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	10	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	11	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	12	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	13	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	14	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	15	1989	11.0	51.8	11.5	52.7	10.5	50.9
12	16	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	17	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	18	1989	10.0	50.0	10.5	50.9	9.5	49.1
12	19	1989	10.0	50.0	10.5	50.9	9.5	49.1
12	20	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	21	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	22	1989	10.0	50.0	10.5	50.9	10.0	50.0
12	23	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	24	1989	10.0	50.0	11.0	51.8	9.5	49.1
12	25	1989	10.0	50.0	10.5	50.9	9.5	49.1
12	26	1989	10.0	50.0	10.5	50.9	9.5	49.1
12	27	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	28	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	29	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	30	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	31	1989	9.5	49.1	10.0	50.0	9.5	49.1

YEAR 1988

Table 10d. Periodic Afternoon and Morning Water Temperatures at Jellys Ferry, 1988^{1/2}

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM
1								59	55.8			
2								59.4	55.6			
3								59.4	55.4			
4								59.4	55.6			
5								58.1	55.9			
6								59.2	55.6			
7								59.5	55.6			
8								58.6	56.3			
9								59	57			
10								60.1	56.5			
11								59.9	57			
12								60.1	56.7			
13								59.5	56.3			
14								60.1	56.7			
15								59.7	56.1			
16								60.8	56.7			
17								61.3	57.6			
18								61.9	58.5			
19								62.4	58.8			
20							59.9	55.9	63.7	59.4		
21							60.3	56.5	63	60.3		
22							60.4	56.3	63	60.1		
23							59	55.4		60.3		
24								58.5	55.4			
25								58.8	55.4			
26								59.4	55.4			
27								59.9	55.9			
28								59.2	55.9			
29								59	55			
30								58.6	55.2			
31								58.6	55.4			

MAX
MIN.

1/ Handheld temperature readings taken with ASTM thermometer (river mile 266.7).

2/ Unpublished data collected by DFG, Region 1 and USFWS, Red Bluff.

YEAR 1983

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-83^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									55	52	57	54	58	55	58	55	57	56	58	58	53	53	52		
2									56	52	58	54	58	55	58	55	57	56	58	57	53	53	52		
3									56	52	59	55	58	55	58	55	58	56	57	57	53	53	50		
4									57	53	58	54	58	55	58	55	58	56	57	57	53	53	50		
5									56	53	57	54	58	54	58	55	58	56	57	57	51	51	50		
6									56	53	58	54	58	54	59	55	58	56	57	56	51	51	50		
7									57	53	58	54	58	54	59	56	58	56	56	56	55	50	50		
8									57	54	58	54	58	55	59	57	58	56	56	56	54	52	51		
9									54	53	58	54	58	55	59	56	58	56	56	56	55	52	51		
10									56	52	58	54	58	55	59	57	58	56	53	53	51	51	51		
11									52	50	56	53	58	55	58	54	60	57	58	56	55	53	50	51	
12									52	50	57	53	59	55	58	54	60	57	58	56	55	54	50	49	
13									52	50	56	53	58	55	57	54	60	58	58	56	55	54	51	50	
14									52	50	56	53	59	55	58	55	60	58	58	56	54	53	51	51	
15									55	51	56	53	58	54	58	55	60	57	58	55	54	53	51	51	
16									56	52	58	54	58	54	58	55	60	57	58	55	54	53	51	51	
17									57	54	57	54	57	54	58	55	60	57	58	55	54	51	50	50	
18									55	53	58	54	57	54	58	55	60	57	58	55	54	53	50	50	
19									56	52	57	54	58	54	58	55	60	57	58	55	54	53	50	50	
20									56	52	58	54	58	54	58	55	58	57	58	55	54	53	50	50	
21									56	52	58	54	58	54	57	55	58	56	58	55	53	52	50	50	
22									57	52	58	54	58	54	58	55	58	57	58	55	53	52	50	49	
23									56	53	58	54	58	54	58	55	59	57	58	55	53	51	50	48	
24									56	53	58	54	58	55	58	55	59	57	58	56	51	50	48	43	
25									55	52	58	54	58	54	58	55	59	57	58	56	52	51	46	43	
26									56	52	58	54	58	54	58	55	58	57	58	56	53	51	48	46	
27									56	52	57	54	58	54	58	55	58	57	58	56	53	51	48	47	
28									55	52	57	54	58	55	58	55	58	56	57	55	53	52	48	47	
29									55	52	58	54	58	55	58	55	58	56	58	56	53	52	48	48	
30									56	52	56	54	58	55	58	55	57	56	58	56	53	52	49	48	
31									55	52			58	55	58	55	57	56	58	57	54	52	49	48	
MAX													58		59		58		60		58		58		53
MIN													52		54		54		55		55		50		43

1/ Palmer thermograph located on east bank abutment at gauging station (river mile 257.7).

2/ From unpublished DWR, Northern District data.

YEAR 1984

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	47	48	47	50	49	52	49	52	50	58	54												
2	49	47	48	46	50	49	52	50	53	51	58	54												
3	50	48	48	46	50	48	52	52	55	51	58	54												
4	50	48	48	47	50	48	52	52	55	51	58	54												
5	49	49	49	48	51	48	52	52	54	51	56	54												
6	49	49	49	47	51	49	53	52	54	51	56	54												
7	49	48	49	48	51	50	53	51	55	51	56	54												
8	48	48	48	48	51	50	52	51	55	52	58	54												
9	48	48	49	48	51	50	52	50	55	53	58	54												
10	48	48	49	47	52	50	52	49	55	53	57	54												
11	48	47	48	47	52	51	52	49	54	53	58	54												
12	48	47	47	47	52	52	53	50	56	53	58	54												
13	47	46	47	47	52	52	54	50	56	53	59	55												
14	46	46	48	46	52	51	54	51	56	53	59	55												
15	46	46	48	46	52	50	55	53	55	51	59	55												
16	47	46	47	46	51	49	55	53	55	51	59	56												
17	47	46	48	46	49	47	54	52	56	52	59	56												
18	47	45	48	46	50	48	54	50	56	53	59	56												
19	47	46	48	47	51	48	53	50	56	53	58	56												
20	46	45	49	48	51	49	53	50	56	53	58	55												
21	47	46	49	48	50	48	54	51	56	53		54												
22	47	46	49	47	50	48	56	52	56	53														
23	47	45	46	46	50	48	56	54	56	53														
24	48	46	48	46	51	48	55	53	56	54														
25	48	46	49	47	50	48	53	51	55	53														
26	47	46	49	47	51	48	52	48	57	57	53													
27	48	46	49	47	51	48	52	48	57	57	54													
28	48	46	49	47	51	49	53	50	57	57	54													
29	48	46	50	48	50	48	53	50	59	59	58													
30	48	46			50	48	52	50	59	55														
31	48	46			50	49			58	54														
MAX	50		50		52		56		59															
MIN	45		46		47		48		50															

YEAR 1985

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	-	-	45	43	48	48	55	53	55	53	55	52	57	53	58	55	63	61	60	59	57	56	51	51
2	47	45	45	43	47	46	55	54	55	52	56	53	57	53	59	55	62	61	61	60	57	56	50	49
3	47	45	45	44	47	46	55	54	54	52	56	53	57	54	60	56	62	61	62	61	57	56	52	51
4	47	46	45	44	48	47	56	54	54	51	55	54	57	53	60	56	62	61	62	61	57	56	52	51
5	47	46	45	44	47	45	57	55	54	51	56	54	58	53	60	56	63	61	62	61	55	54	52	51
6	47	46	45	44	45	45	58	56	54	52	56	54	58	54	60	56	63	61	61	60	56	54	52	51
7	47	47	45	45	45	44	58	57	54	52	55	54	57	53	60	56	61	60	60	59	56	56	52	51
8	47	47	45	44	46	44	58	56	55	52	57	53	57	54	60	57	61	59	58	56	56	55	51	50
9	47	47	45	44	47	45	58	57	54	52	56	52	58	54	61	57	60	59	55	54	54	52	50	49
10	47	45	45	43	47	47	58	57	54	52	56	52	58	54	61	57	61	59	57	55	53	52	49	47
11	47	45	45	44	49	47	58	56	54	51	57	52	58	54	61	57	60	60	58	57	52	51	47	46
12	47	45	47	45	49	48	57	56	55	51	56	53	58	54	61	58	61	60	58	57	51	50	46	46
13	46	45	47	46	50	48	57	55	56	51	56	53	58	54	61	58	61	60	58	57	51	50	47	46
14	46	45	47	46	50	49	57	55	54	51	56	53	58	54	62	58	61	60	58	56	51	50	47	47
15	47	45	47	46	50	49	57	56	54	50	57	53	58	54	62	59	61	60	59	57	52	51	47	47
16	47	47	48	47	50	50	55	54	53	50	57	53	58	55	62	58	61	60	59	58	54	52	48	47
17	48	47	48	47	51	50	56	54	56	50	57	53	58	55	62	59	-	-	59	58	53	52	48	48
18	48	47	48	47	51	50	55	54	56	52	56	52	58	54	61	59	61	-	59	59	52	51	48	48
19	48	47	48	47	52	51	54	52	56	53	56	53	58	55	62	59	61	60	59	58	51	51	48	48
20	48	47	47	46	52	50	53	52	56	53	57	53	56	55	63	60	61	61	58	57	51	50	48	47
21	48	47	48	46	51	49	52	50	56	53	57	53	57	54	63	60	62	61	58	57	51	50	48	48
22	48	47	49	48	50	49	54	50	57	53	57	53	60	55	63	60	62	61	56	57	51	50	48	47
23	48	47	49	48	51	50	55	52	57	54	56	53	60	55	63	60	62	61	58	56	51	51	48	48
24	47	46	49	48	51	49	55	52	57	55	55	52	61	56	63	60	62	61	58	57	52	52	48	47
25	47	46	49	48	50	49	54	52	57	54	56	51	60	56	64	61	62	61	58	58	52	52	48	47
26	48	47	48	47	49	44	55	52	56	53	58	53	59	57	64	62	62	61	59	58	52	51	47	47
27	47	46	49	47	45	43	56	53	56	53	56	53	60	56	64	62	62	61	58	58	52	52	48	47
28	47	47	49	47	47	45	56	53	53	52	56	53	60	57	64	62	61	61	59	57	52	49	47	47
29	47	47	-	-	50	47	56	53	55	51	57	53	59	56	63	61	61	60	57	57	50	49	47	47
30	47	46	-	-	51	50	56	53	55	52	57	53	59	56	63	61	60	60	58	57	51	50	48	47
31	46	45	-	-	53	51	-	-	55	53	57	52	58	56	63	61	-	-	-	-	48	48	-	-
MAX	48	49	53	58	57	58	61	64												57	52			
MIN	45	43	43	50	50	51	53	55												49	46			

-No Data.

YEAR 1986

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	48	48	51	51	50	48	56	56	55	53	60	58	57	54	58	55	58	55	57	55	55	53	52	51	
2	49	48	51	50	50	49	55	54	54	52	60	58	58	55	58	55	58	55	56	54	55	53	53	52	
3	49	49	50	49	50	49	55	54	52	52	60	58	58	55	58	55	58	55	56	54	55	53	53	52	
4	49	49	49	47	51	49	55	54	53	51	59	57	58	56	58	55	58	55	57	55	55	54	53	52	
5	50	49	48	47	51	49	56	55	54	52	58	56	58	55	58	55	57	55	57	56	55	54	53	52	
6	50	49	48	47	50	49	56	56	54	52	58	56	58	55	58	55	57	56	58	56	54	53	53	52	
7	49	47	47	46	52	50	56	54	55	52	58	56	58	55	58	55	58	57	57	56	54	53	52	51	
8	48	48	47	46	52	50	54	54	56	53	58	55	58	55	58	55	58	57	56	55	54	53	52	51	
9	48	48	47	46	49	49	56	53	57	54	58	55	58	55	58	55	58	57	56	55	54	53	52	50	
10	48	47	47	47	50	49	57	56	56	54	58	55	58	55	58	55	57	56	56	55	54	53	52	50	
11	48	47	48	47	50	49	57	57	56	54	58	55	58	56	58	55	57	56	56	54	54	53	51	50	
12	47	47	47	46	50	49	57	56	56	54	58	54	58	55	58	55	57	56	55	53	53	51	51	50	
13	47	47	47	46	49	48	55	54	56	52	58	55	58	56	58	55	56	55	55	53	53	51	50	50	
14	47	46	51	48	49	48	55	55	54	51	57	55	58	55	58	55	56	55	55	53	54	53	52	50	
15	47	46	51	49	49	48	55	55	54	51	57	54	58	55	58	55	56	54	55	53	54	53	52	52	
16	49	47	49	48	50	47	54	53	57	52	57	54	58	55	58	55	56	54	55	54	54	53	-	-	
17	50	49	51	49	50	48	55	52	57	54	57	54	58	55	58	55	56	55	55	54	54	53	-	-	
18	49	48	51	49	50	48	56	54	58	55	57	54	58	55	57	55	56	55	54	53	54	53	-	-	
19	49	49	49	49	50	48	58	55	58	55	56	53	58	54	57	55	56	55	55	53	55	54	51	50	
20	49	48	49	48	52	50	59	57	57	55	56	53	58	54	57	55	57	55	55	54	54	53	50	50	
21	48	47	48	48	52	50	59	59	57	54	57	54	59	54	57	55	57	56	55	54	54	53	50	50	
22	48	48	49	48	52	50	60	58	56	54	58	54	58	55	57	54	57	55	55	54	54	53	50	49	
23	48	48	50	48	52	50	59	56	57	55	57	54	58	55	57	55	58	56	55	53	54	53	50	49	
24	49	48	50	48	53	51	57	55	58	55	57	54	58	55	57	55	57	56	54	53	53	52	50	49	
25	48	47	50	48	53	50	56	54	58	56	58	54	58	55	58	55	56	55	55	54	52	52	49	48	
26	48	47	50	48	53	50	55	53	58	56	55	54	58	55	57	55	56	55	55	54	53	52	50	49	
27	48	48	50	49	55	51	55	53	59	56	56	53	58	55	57	55	56	54	56	55	52	52	50	49	
28	49	48	50	49	56	53	55	53	59	56	57	54	58	55	58	55	56	54	56	55	52	52	50	49	
29	49	49			56	54	55	53	59	57	57	54	58	54	58	55	56	55	55	52	52	49	49		
30	50	49			57	55	55	53	59	57	57	54	58	54	58	55	57	55	55	54	52	51	49	49	
31	51	50			56	55			60	57			58	55	58	55			55	54			49	49	
MAX	51	51			57		60		60		60		59		58		58		58		55				
MIN	46	46			47		52		51		53		54		54		54		53		51				

-No Data.

YEAR 1987

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88, (Continued).

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	49	48	47	50	48	57	55	52	51	55	53	55	53	58	55	-	-	61	59	55	54	52	51
2	49	48	47	47	50	49	57	56	52	51	54	53	55	53	58	55	-	-	61	59	55	54	53	51
3	49	48	48	47	-	-	56	54	53	51	54	52	55	53	57	55	-	-	61	59	55	54	53	52
4	48	48	48	47	-	-	55	53	53	51	54	52	55	53	57	55	-	-	61	59	55	54	53	52
5	48	47	49	48	51	50	55	53	54	51	54	52	55	53	57	55	-	-	60	59	55	54	54	53
6	49	48	48	47	-	50	55	53	54	51	53	51	55	53	58	55	-	-	61	59	55	54	53	52
7	48	47	49	48	-	-	54	52	54	52	53	51	55	53	58	55	-	-	61	59	55	54	52	51
8	47	46	49	49	-	-	55	53	55	53	53	51	55	53	58	55	-	-	61	59	55	54	50	50
9	47	46	49	49	-	-	55	54	55	52	53	51	55	53	58	55	-	-	60	59	55	54	50	49
10	47	47	49	49	-	-	55	53	55	52	53	51	56	54	58	55	-	-	60	59	55	56	55	50
11	48	47	50	49	-	-	53	51	55	52	54	51	56	54	58	55	-	-	59	58	54	53	52	50
12	47	47	50	49	-	-	53	51	55	53	54	51	57	55	59	56	-	-	60	59	55	54	48	46
13	47	46	51	49	-	-	53	51	55	53	53	51	57	55	59	56	-	-	59	58	55	54	46	45
14	47	46	51	48	-	-	54	52	55	53	54	52	57	55	59	56	-	-	59	58	55	54	46	45
15	46	44	50	48	-	-	54	52	56	53	53	51	57	55	59	57	-	-	58	57	55	53	46	45
16	44	43	50	48	-	-	54	52	56	54	53	51	57	55	59	57	-	-	58	57	53	52	47	46
17	47	44	49	48	-	-	53	51	56	54	53	51	56	55	59	57	-	-	58	57	54	52	47	46
18	47	47	49	49	-	-	53	50	56	54	53	51	56	54	59	57	61	60	58	57	54	53	48	47
19	47	46	49	48	-	-	52	50	56	54	54	52	57	54	60	58	61	60	57	56	55	54	48	47
20	47	46	50	48	-	-	53	50	56	54	55	53	57	54	60	57	61	60	57	56	54	54	48	47
21	47	47	49	48	-	-	53	51	56	54	55	53	56	54	60	57	62	60	57	56	54	53	49	48
22	47	47	48	47	-	-	53	51	56	54	55	53	57	54	60	57	62	60	57	56	54	53	50	49
23	47	47	48	47	-	-	53	51	56	54	55	52	57	54	60	58	62	61	57	56	53	52	50	49
24	47	46	47	46	-	-	53	51	56	55	55	52	57	55	60	58	61	61	57	56	53	52	49	46
25	46	45	47	45	-	-	53	51	56	54	55	52	57	55	61	58	61	60	58	57	53	52	46	44
26	48	46	48	46	-	-	53	51	55	54	55	52	57	55	61	57	61	59	58	57	51	50	45	44
27	48	48	48	47	-	-	53	52	56	54	55	53	58	55	60	57	61	59	58	57	51	50	45	45
28	48	47	49	48	-	-	53	51	56	54	55	53	58	55	58	56	61	59	57	56	51	50	45	45
29	49	47	-	-	53	51	56	54	55	53	58	55	58	56	61	59	56	55	51	50	45	44	-	
30	49	48	-	-	52	51	56	54	55	53	58	55	59	57	61	59	56	55	51	50	44	43	-	
31	48	48	-	-	57	55	-	55	53	-	58	55	59	57	-	-	56	54	-	45	44	-		
MAX	49	51	-	-	57	56	55	55	53	-	58	58	59	57	61	-	61	56	56	54	-	-		
MIN	43	45	-	-	50	51	51	51	53	-	53	53	55	55	54	-	54	50	50	43	-	-		

-No Data.

YEAR 1988

Table 11a. Daily Maximum and Minimum Water Temperatures at Bend Bridge, 1983-88, (Continued).

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	44	44	47	46	52	51	52	49	53	51	53	52	55	53	-	-	63	61								
2	45	44	46	45	52	51	51	49	53	50	55	52	56	54	-	-	63	61								
3	46	43	46	45	52	51	52	49	53	51	55	54	56	54	-	-	63	61								
4	44	42	46	45	52	51	52	49	52	50	55	53	56	54	-	-	63	61								
5	46	44	46	45	53	52	52	48	52	50	54	52	56	54	-	-	63	61								
6	48	46	47	46	53	52	52	48	52	50	53	52	56	54	-	-			61							
7	48	46	48	46	53	52	52	49	50	50	53	52	56	54	-	-										
8	46	45	49	48	53	52	51	48	52	50	54	51	56	54	-	-										
9	47	46	50	49	53	51	52	48	52	50	54	52	57	54	61	59										
10	48	47	50	48	51	50	52	48	53	50	55	53	57	55	61	59										
11	48	46	51	49	50	49	52	48	54	51	56	53	-	55	61	59										
12	45	44	51	50	51	49	52	49	54	51	56	54	-	-	61	59										
13	47	45	50	49	51	49	50	49	54	52	56	54	-	-	61	59										
14	48	47	50	48	52	50	50	49	55	52	56	54	-	-	61	59										
15	47	46	50	49	51	50	52	48	56	53	56	54	-	-	61	59										
16	48	46	50	49	52	49	52	50	56	52	57	54	-	-	62	59										
17	47	45	49	48	51	49	52	50	55	52	57	54	-	-	62	60										
18	46	44	49	48	52	49	50	49	55	52	57	54	-	-	62	60										
19	45	44	50	48	52	50	50	49	55	52	56	54	-	-	63	60										
20	46	44	51	49	52	50	51	49	55	52	56	54	-	-	63	61										
21	46	45	52	50	52	51	52	50	55	53	56	55	-	-	63	61										
22	48	46	51	50	53	51	52	50	55	53	56	54	-	-	63	61										
23	48	47	52	50	53	52	53	50	54	52	56	54	-	-	64	62										
24	48	47	52	50	53	50	53	50	55	53	56	54	-	-	64	62										
25	48	47	51	50	53	51	53	50	55	53	56	55	-	-	63	61										
26	48	47	52	50	53	50	53	50	55	53	56	54	-	-	64	62										
27	48	47	52	51	51	50	54	51	55	53	56	54	-	-	64	62										
28	48	47	53	52	51	49	54	52	55	53	56	54	-	-	63	62										
29	48	47	52	51	51	49	53	51	54	52	56	54	-	-	63	61										
30	48	47			51	49	53	51	54	51	55	53	-	-	63	61										
31	47	46			52	49			54	52			-	-	63	61										
MAX	48		53		53		54		56		57															
MIN	42		45		49		48		50		51															

-No Data.

Table 11b. Daily Mean, Maximum, and Minimum Water Temperatures at Bend Bridge, 1989 1/2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	19	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	20	1989	8.5	47.3	9.0	48.2	8.5	47.3
1	21	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	22	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	23	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	24	1989	7.5	45.5	8.5	47.3	7.5	45.5
			-	-	-	-	-	-
7	15	1989	12.5	54.5	14.0	57.2	12.0	53.6
7	16	1989	13.0	55.4	14.5	58.1	12.5	54.5
7	17	1989	13.5	56.3	15.0	59.0	12.5	54.5
7	18	1989	13.5	56.3	15.0	59.0	13.0	55.4
7	19	1989	13.5	56.3	14.5	58.1	12.5	54.5
7	20	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	21	1989	13.5	56.3	14.5	58.1	12.5	54.5
7	22	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	23	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	24	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	25	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	26	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	27	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	28	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	29	1989	13.0	55.4	14.5	58.1	12.0	53.6
7	30	1989	13.5	56.3	14.5	58.1	12.5	54.5
7	31	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	1	1989	13.0	55.4	14.0	57.2	12.0	53.6
8	2	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	3	1989	13.0	55.4	14.5	58.1	12.0	53.6
8	4	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	5	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	6	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	7	1989	13.5	56.3	15.0	59.0	12.5	54.5
8	8	1989	13.5	56.3	15.0	59.0	13.0	55.4
8	9	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	10	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	11	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	12	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	13	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	14	1989	14.0	57.2	15.5	59.9	13.0	55.4
8	15	1989	14.0	57.2	15.5	59.9	13.5	56.3
8	16	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	17	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	18	1989	14.0	57.2	15.0	59.0	13.0	55.4
8	19	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	20	1989	14.5	58.1	15.5	59.9	13.5	56.3

1/ Omnidata DP112 thermograph located on east 1/3 bridge abutment.

2/ Unpublished data collected by DWR, Northern District.

Table 11b. Daily Mean, Maximum, and Minimum Water Temperatures at Bend Bridge, 1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	21	1989	14.5	58.1	16.0	60.8	14.0	57.2
8	22	1989	14.0	57.2	15.5	59.9	13.5	56.3
8	23	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	24	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	25	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	26	1989	14.0	57.2	15.0	59.0	13.5	56.3
8	27	1989	14.5	58.1	15.5	59.9	13.5	56.3
8	28	1989	14.5	58.1	15.5	59.9	14.0	57.2
8	29	1989	15.0	59.0	15.5	59.9	14.0	57.2
8	30	1989	14.5	58.1	15.0	59.0	14.0	57.2
8	31	1989	14.5	58.1	15.5	59.9	13.5	56.3
9	1	1989	14.5	58.1	15.5	59.9	13.5	56.3
9	2	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	3	1989	14.0	57.2	15.0	59.0	13.5	56.3
9	4	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	5	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	6	1989	14.5	58.1	15.0	59.0	14.0	57.2
9	7	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	8	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	9	1989	14.0	57.2	15.5	59.9	13.5	56.3
9	10	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	11	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	12	1989	14.5	58.1	15.5	59.9	13.5	56.3
9	13	1989	14.5	58.1	15.0	59.0	13.5	56.3
9	14	1989	14.0	57.2	15.0	59.0	13.5	56.3
9	15	1989	14.0	57.2	15.0	59.0	13.5	56.3
9	16	1989	14.0	57.2	15.0	59.0	13.5	56.3
9	17	1989	14.0	57.2	14.5	58.1	14.0	57.2
9	18	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	19	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	20	1989	15.5	59.9	16.5	61.7	15.5	59.9
9	22	1989	14.0	57.2	14.5	58.1	14.0	57.2
9	23	1989	16.0	60.8	16.0	60.8	16.0	60.8
9	24	1989	16.0	60.8	16.5	61.7	15.5	59.9
9	25	1989	15.5	59.9	16.0	60.8	15.5	59.9
9	26	1989	15.0	59.0	15.5	59.9	15.0	59.0
9	27	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	28	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	29	1989	15.5	59.9	16.0	60.8	15.0	59.0
9	30	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	1	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	2	1989	15.0	59.0	15.5	59.9	14.5	58.1
10	3	1989	14.5	58.1	15.5	59.9	14.5	58.1
10	4	1989	14.0	57.2	15.0	59.0	14.0	57.2
10	5	1989	14.0	57.2	15.0	59.0	13.5	56.3
10	6	1989	14.0	57.2	15.0	59.0	14.0	57.2

Table 11b. Daily Mean, Maximum, and Minimum Water Temperatures at Bend Bridge, 1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	7	1989	14.5	58.1	15.5	59.9	14.0	57.2
10	8	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	9	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	10	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	11	1989	15.5	59.9	16.0	60.8	15.0	59.0
10	12	1989	15.0	59.0	15.5	59.9	15.0	59.0
10	13	1989	15.0	59.0	15.5	59.9	15.0	59.0
10	14	1989	14.5	58.1	15.0	59.0	14.5	58.1
10	15	1989	14.5	58.1	15.0	59.0	14.0	57.2
10	16	1989	14.0	57.2	15.0	59.0	14.0	57.2
10	17	1989	14.0	57.2	15.0	59.0	14.0	57.2
10	20	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	21	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	22	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	23	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	24	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	25	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	26	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	27	1989	13.5	56.3	14.5	58.1	13.0	55.4
10	28	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	29	1989	12.5	54.5	13.5	56.3	12.0	53.6
10	30	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	31	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	1	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	2	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	3	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	4	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	5	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	6	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	7	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	8	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	9	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	10	1989	14.0	57.2	15.0	59.0	13.5	56.3
11	11	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	12	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	15	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1989	13.5	56.3	15.0	59.0	13.0	55.4
11	17	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	18	1989	12.5	54.5	14.0	57.2	12.0	53.6
11	19	1989	12.0	53.6	13.0	55.4	11.5	52.7
11	20	1989	12.0	53.6	13.0	55.4	11.5	52.7
11	21	1989	11.5	52.7	13.0	55.4	11.5	52.7
11	22	1989	12.0	53.6	13.0	55.4	11.5	52.7
11	23	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	24	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	25	1989	11.5	52.7	12.0	53.6	11.5	52.7

Table 11b. Daily Mean, Maximum, and Minimum Water Temperatures at Bend Bridge, 1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	26	1989	11.0	51.8	11.5	52.7	11.0	51.8
11	27	1989	11.0	51.8	12.0	53.6	11.0	51.8
11	28	1989	11.0	51.8	11.5	52.7	11.0	51.8
11	29	1989	11.0	51.8	11.5	52.7	10.5	50.9
11	30	1989	11.5	52.7	12.0	53.6	11.0	51.8
12	1	1989	11.5	52.7	12.0	53.6	11.5	52.7
12	2	1989	11.5	52.7	12.0	53.6	11.5	52.7
12	3	1989	11.5	52.7	12.0	53.6	11.0	51.8
12	4	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	5	1989	12.0	53.6	12.5	54.5	12.0	53.6
12	6	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	7	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	8	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	9	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	10	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	11	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	12	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	13	1989	10.0	50.0	11.0	51.8	10.0	50.0
12	14	1989	10.0	50.0	11.0	51.8	10.0	50.0
12	15	1989	10.0	50.0	11.0	51.8	10.0	50.0
12	16	1989	10.0	50.0	11.0	51.8	10.0	50.0
12	17	1989	10.0	50.0	10.5	50.9	9.5	49.1
12	18	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	19	1989	9.5	49.1	10.0	50.0	9.0	48.2
12	20	1989	9.0	48.2	9.5	49.1	9.0	48.2
12	21	1989	9.0	48.2	9.5	49.1	9.0	48.2
12	22	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	23	1989	9.0	48.2	10.0	50.0	9.0	48.2
12	24	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	25	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	26	1989	9.5	49.1	10.5	50.9	9.0	48.2

YEAR 1987

Table 11c. Periodic Afternoon and Morning Water Temperatures at Bend Bridge, 1987 and 1989^{1/ 2/}

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM	
1								-	58.3	-	61	-	55 55
2							-	-	60.1	-	-	-	55.5 56
3							58.3	-	58.6	-	-	-	56 55
4							58.6	-	-	-	-	-	56 54.5
5							58.6	-	58.5	-	61.3	-	56 54.5
6							59.5	-	-	-	60.8	60.3	55.5 55.5
7							58.8	-	-	-	60	59.7	54.5 55
8							-	-	57.4	54.7	59	60	55 55
9							-	-	57.2	-	59	59	56.5 55
10							58.5	-	58.8	56.8	60	60	55 55
11							59	-	-	57.2	60	59	55 54
12							59	-	-	-	61	60	54.5 54
13							59.4	-	-	-	59	58	53 54
14							59.5	-	60.4	58.3	58	59	54.5 53.5
15							58.1	-	-	-	59.7	-	57 53.5 53
16							56.7	-	-	-	-	-	- 52
17							54.7	-	59	-	61.3	59.4	58 55 54.5 54
18							-	-	59.4	-	61.5	59.3	57 55 - 54
19							-	-	-	-	-	57	55 55 53
20							56.8	-	-	-	-	56	55 - 54
21							56.3	-	60.8	-	62.4	-	58 55.5 55 54
22							57.2	-	-	-	62.8	61.2	- 56 55 53.5
23							57.2	-	-	-	62.2	-	- 54 53
24							57.6	-	61.3	57.9	61	-	57 55 - 53.5
25							-	-	-	59.7	61.7	60.1	56.5 55
26							-	-	-	59	-	-	57 55
27							58.1	-	59.5	-	-	-	57 56
28							-	-	59	-	-	-	56 57
29							58.6	-	-	-	-	-	55 53.5
30							58.1	-	-	-	-	-	56 53
31							-	-	59.7	-	-	55	55

MAX

MIN.

-No Data.

1/ Handheld readings taken with ASTM thermometer (river mile 257.7).

2/ Unpublished data collected by DFG, Region 1 and USFWS, Red Bluff.

YEAR 1989

Table 11c. Periodic Afternoon and Morning Water Temperatures at Bend Bridge 1987 and 1989, (Continued)

DAY	JAN. PM AM	FEB. PM AM	MAR. PM AM	APR. PM AM	MAY PM AM	JUN. PM AM	JUL. PM AM	AUG. PM AM	SEP. PM AM	OCT. PM AM	NOV. PM AM	DEC. PM AM
1								55.8	53.6	58	56.6	60.1
2								56.2	53.6	58.1	56.4	58.6
3								56.6	53.8	57.2	56	—
4								56.1	54	57.4	56.2	58.1
5								57	53.8	57.8	56.6	58.1
6							55.5	—	56.4	54.3	57	58.5
7							56	54	56.6	54.4	57.8	56.4
8							55	54	57.2	54.6	58	56.2
9							56	54	57.4	55.2	57.8	56.4
10							56.5	54.5	58	55.2	58	56.6
11							56	54	56.8	55.4	58	57
12							56	54	56.8	55.2	58	57
13							56	54	57	55.2	57.8	56.8
14							56	54.1	57.6	55.8	56.6	56.8
15							55.6	53.8	58.4	56.2	58	57
16							56	54	57.6	56	56.4	58
17							56.4	54.2	57.6	56	56.6	56.4
18							52	55	57.2	56	58.4	57.2
19							56.6	54.6	56.4	55.8	59.4	58.4
20							—	54	58.2	56.1	60.9	59.6
21							—	—	58.4	56.8	60.8	60
22							—	—	57.4	57.4	60.9	60
23							—	—	57.8	56	60.6	60.6
24							56	—	57.8	56.2	61.2	60
25							—	53.4	57.6	56.2	60	59.8
26							—	—	57.2	55.8	59.4	59.4
27							—	—	58	56.4	59.6	58.2
28							56.8	—	59	57	—	—
29							56	53.2	59	57	60.4	—
30							56	53.6	57.6	57	60	58.2
31							56.2	53.8	58	56.6	—	53.6

MAX
MIN.
—No Data.

YEAR 1950

Table 12a. Daily Maximum and Minimum Water Temperatures at Red Bluff, 1950-51^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1				58	56	56	54	59	58	56	54	55
2				58	57	53	50	59	58	56	53	55
3				57	56	52	50	59	57	56	53	55
4				57	55	53	51	58	57	56	53	55
5				57	56	54	51	58	57	55	53	55
6				55	53	55	53	58	54	55	53	56
7				53	51	55	53	54	53	55	53	56
8				51	50	56	53	55	53	55	53	56
9				52	49	56	54	55	54	55	53	56
10				55	51	57	55	56	54	56	53	57
11				56	53	58	56	55	52	55	54	56
12				55	55	58	57	55	52	55	54	57
13				55	53	58	57	55	55	54	57	56
14				56	53	58	57	56	55	53	57	56
15				56	54	59	57	57	55	54	57	56
16				57	55	59	58	56	55	54	56	55
17				59	57	58	57	56	54	55	54	55
18				60	58	57	56	56	55	54	55	55
19				61	59	57	56	56	55	54	55	54
20				62	60	57	57	57	56	55	53	53
21			51	63	61	58	57	57	55	53	56	54
22		52	50	62	61	59	58	57	56	55	54	52
23		52	49	61	59	60	58	56	54	55	54	51
24		49	47	59	57	59	58	54	54	55	54	50
25		49	47	60	57	59	57	54	53	54	57	49
26		49	48	61	58	58	58	53	52	55	54	49
27		50	47	61	59	58	58	54	53	54	57	49
28		52	50	59	57	58	58	55	53	56	54	50
29		52	51	58	55	58	57	56	53	56	55	49
30		55	51	58	56	59	58	56	54	55	54	50
31		57	54		59	58		55	53	56	52	48
MAX				63		60		59		56		53
MIN				49		50		52		53		42

1/ Type of thermograph unknown, but located about $\frac{1}{2}$ mile south of Antelope Boulevard bridge.

2/ From USFWS, 1952.

YEAR 1951

Table 12a. Daily Maximum and Minimum Water Temperatures at Red Bluff, 1950-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	48	45	44	56	56	52	49	53	51	56	55	58	57	57	54	55	54	58	54	57	55	51	51
2	48	48	45	45	56	55	52	52	52	52	55	55	58	57	57	55	55	54	57	56	56	55	51	48
3	49	48	45	45	56	55	58	55	51	50	56	55	58	57	56	55	56	55	58	56	56	54	49	47
4	49	49	46	45	55	54	55	52	51	50	59	55	57	56	56	54	57	55	58	57	57	55	48	48
5	50	49	49	45	44	43	55	52	52	51	58	58	56	56	56	54	57	56	57	56	57	56	49	48
6	49	48	49	48	46	44	56	54	54	52	58	57	56	55	56	54	57	55	58	56	57	55	48	46
7	48	47	50	49	47	44	57	54	54	50	58	57	56	55	56	54	56	55	58	57	56	55	46	45
8	48	48	50	48	47	47	58	55	56	52	57	57	57	55	57	54	57	55	59	57	57	54	46	45
9	49	48	50	49	47	46	58	56	58	55	57	56	57	57	57	55	57	55	59	57	55	54	46	45
10	48	46	49	49	46	45	59	57	60	58	57	58	56	57	55	59	56	58	57	54	53	47	45	
11	47	46	49	48	47	46	59	57	58	56	58	57	58	56	57	55	59	58	57	56	53	52	49	47
12	47	46	49	46	49	47	58	56	55	54	58	57	57	55	57	55	59	57	57	56	53	52	50	49
13	47	46	49	47	51	48	58	56	55	54	59	58	56	54	57	55	58	57	58	56	52	51	49	47
14	46	46	49	48	52	51	58	56	58	53	59	58	56	54	57	55	58	57	58	56	53	51	48	46
15	47	46	49	48	52	51	59	57	58	55	59	58	56	54	57	55	58	57	58	57	53	51	48	46
16	47	46	49	47	52	49	57	55	60	58	59	58	56	53	57	55	59	58	57	56	53	51	47	46
17	46	45	48	47	50	48	55	53	61	59	59	58	56	53	57	55	59	58	57	55	53	51	47	45
18	47	45	48	46	50	48	56	53	60	59	59	59	57	54	57	54	60	58	56	55	53	51	45	45
19	46	45	48	46	50	49	57	54	60	59	59	59	57	54	56	55	60	59	57	55	53	51	46	44
20	45	45	48	47	52	50	57	54	59	58	59	58	57	53	57	55	60	59	57	56	51	49	45	43
21	45	41	47	46	53	51	56	54	59	54	58	57	56	53	58	56	59	58	56	55	49	48	45	43
22	42	39	47	46	52	50	55	54	60	58	57	57	56	54	57	56	58	57	56	54	49	47	46	44
23	46	42	48	46	51	49	56	54	59	58	57	57	56	54	57	56	58	57	55	54	50	48	46	46
24	47	46	47	46	52	51	54	51	59	57	58	57	56	54	57	56	57	56	54	53	50	49	48	46
25	47	41	47	46	52	50	53	50	58	57	58	57	56	54	57	55	58	56	54	53	50	47	47	
26	48	47	47	43	52	50	52	49	60	58	58	57	56	53	57	56	58	56	55	54	50	49	48	47
27	48	47	46	45	52	50	52	51	61	59	58	57	56	53	57	55	58	56	56	54	49	48	-	48
28	47	47	46	46	52	51	51	50	59	58	58	57	56	53	56	55	57	56	56	55	51	49	-	-
29	47	44			51	50	51	50	58	57	58	57	56	53	56	55	56	55	57	55	51	51	-	-
30	44	43			50	48	54	50	58	57	58	57	56	53	55	54	55	54	57	55	51	51	-	-
31	44	43			50	49			57	56			56	53	55	54			57	55			-	-
MAX	50	50			56		59		61		59		58		58		60		59		57			
MIN	39	43			43		49		50		55		53		54		54		53		47			

-No Data.

YEAR 1952-57

Table 12b. Monthly Maximum and Minimum Water Temperatures at Red Bluff, 1952-57^{1/ 2/}

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min																						
1952	45.1	43.8	46.6	45.4	47.7	45.8	51.7	49.5	54.5	51.8	55.7	53	57.9	55.5	57.3	55	58.7	56.7	58.3	56.2	52.9	51	48.3	47
1953	49.1	46.9	50.4	45.3	51.8	48.9	55.2	52.4	55.7	52.8	56.9	55.2	58.6	56.4	55.9	54.7	57.5	55.3	57	54.8	54.8	53.3	52.2	50.7
1954	49.7	48.3	50.3	49	51.7	49.7	55.5	53.7	57.2	53.7	56.9	55.1	56.5	55.3	56.3	54.7	57.9	55.8	57.5	55	54.4	52.9	49.1	47.5
1955	46.6	44.8	48.1	45.4	52.1	48.9	52	49.2	58.3	55.4	58.5	55.9	55.6	55	55.9	54.9	58.3	55.9	58.6	56.2	53.4	51.5	49.9	48.8
1956	48.3	48	46.1	45.5	48.6	47.7	54.9	52.3	54	53.2	56.6	55.4	55.7	54.3	53.6	52.6	54.3	52.3	52.2	51.2	50.7	49.8	48.8	47.2
1957	45.6	44.1	48.4	47.5	50.5	49.5	55.8	53.9	54.8	53.9														

1/ Type of thermograph and exact location unknown.

2/ From unpublished USFWS data.

YEAR 1983

Table 12c. Daily Maximum and Minimum Water Temperatures at Red Bluff, 1983-84^{1/2}

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
DAY	max min											
1						55 53	52 51	56 55	54 52	56 55	57 57	53 52
2						52 52	54 51	56 55	54 54	56 55	57 56	52 50
3						53 52	54 51	56 55	56 54	56 56	56 56	50 48
4						55 53	55 53	56 55	56 55	56 56	56 56	50 49
5						55 53	54 53	56 55	56 55	57 56	56 56	50 50
6						55 53	54 52	56 56	56 55	57 56	55 55	50 49
7						54 53	54 53	57 56	57 56	57 56	54 54	50 50
8						55 53	53 51	57 56	58 56	57 56	54 54	50 50
9						55 53	54 52	56 55	57 56	56 56	54 54	50 50
10						55 51	54 52	56 55	58 56	56 56	52 52	50 50
11						53 51	54 53	56 55	58 56	57 56	53 52	50 49
12						51 51	53 52	55 53	56 55	59 57	57 56	50 48
13						51 49	54 53	55 54	56 55	59 57	57 56	52 50
14						52 50	54 53	56 55	56 55	59 57	57 56	53 52
15						53 51	54 53	56 54	56 55	59 57	56 56	53 53
16						54 53	54 53	56 54	56 55	58 57	56 55	53 53
17						57 54	54 53	55 54	56 55	58 56	56 55	53 53
18						56 55	53 52	54 53	56 55	58 56	56 55	52 49
19						56 54	53 52	55 54	56 54	58 56	56 56	52 49
20						56 54	53 52	56 54	55 53	57 56	56 55	51 48
21						56 55	54 52	56 55	55 54	58 56	56 56	51 48
22						56 55	54 52	56 54	55 54	59 56	57 56	52 50
23						56 56	54 52	56 54	55 54	57 56	58 56	50 48
24						57 55	53 52	56 54	55 54	58 57	58 56	50 48
25						57 55	54 52	56 55	55 54	58 57	57 56	50 46
26						57 55	54 52	56 54	55 54	58 57	57 56	46 46
27						57 55	54 52	56 55	55 54	58 57	56 56	52 51
28						56 55	53 52	56 55	55 54	57 56	56 56	51 51
29						57 55	53 52	56 55	56 54	57 56	56 56	52 51
30						56 55	53 52	56 55	55 54	56 56	57 56	46 46
31						55 53		56 55	56 52			
MAX							55	56	57	59	58	57
MIN							51	51	52	52	55	48
											53	41

1/ Palmer thermograph located about 1/2 mile below the Antelope Boulevard bridge at the Elks Lodge on the east bank.

2/ From unpublished DWR, Northern District Data.

YEAR 1984

Table 12c. Daily Maximum and Minimum Water Temperatures at Red Bluff, 1983-84, (Continued)

	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
DAY	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	46	46	47	46	49	48	48	46	50	50	56	54													
2	46	46	47	46	51	49	49	46	-	51	56	54													
3	47	46	46	46	50	49	49	48	52	50	55	54													
4	48	47	-	-	50	49	48	48	52	52	54	52													
5	48	48	-	-	50	48	49	47	52	51	54	52													
6	48	47	-	-	50	48	49	48	52	51	53	51													
7	47	46	-	-	51	48	48	47	53	51	53	50													
8	46	46	-	-	51	50	49	44	54	52	54	53													
9	46	46	-	-	51	50	45	44	55	53	54	54													
10	46	46	-	-	52	50	46	46	53	53	54	54													
11	46	46	-	-	52	50	48	46	54	53	55	54													
12	46	46	-	-	53	50	49	48	54	52	56	55													
13	46	45	-	-	52	52	50	48	55	54	56	55													
14	45	44	-	-	53	51	52	50	54	52	56	55													
15	44	44	-	-	51	50	52	49	52	51	56	56													
16	45	44	-	-	50	48	50	49	52	51	56	56													
17	45	44	-	-	48	47	51	50	54	52	56	56													
18	44	44	-	-	50	48	51	50	54	53	56	56													
19	45	44	-	-	50	50	51	50	55	53	56	55													
20	44	44	-	-	51	50	52	50	55	54	55	55													
21	45	44	-	-	51	50	54	50	55	54	55	55													
22	45	44	-	-	50	49	56	52	55	54															
23	45	44	46	44	50	50	56	54	56	54															
24	46	45	46	44	50	50	56	52	54	53															
25	46	46	48	46	50	50	52	50	55	53															
26	46	46	48	46	50	50	50	50	56	55															
27	47	46	48	46	50	50	50	50	57	57															
28	47	46	48	47	48	46	51	50	57	55															
29	47	46	48	47	46	45	52	50	57	56															
30	47	46			45	45	51	50	57	55															
31	47	46			46	45			56	55															
MAX		48			53		56		57																
MIN		44			45		44		50																

-No Data.

YEAR 1953-56

Table 13a. Monthly Maximum and Minimum Water Temperatures below the Red Bluff Dam Site, 1953-56^{1/ 2/}

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.					
	max	min	max	min																								
1953															56.8	56	59.1	56.1	56.6	55.1	58	55.5	56.9	54.8	54.6	53	52.1	50.5
1954	49.6	48.3	50.4	49.1	52.1	49.8	55.9	53.9	57.5	55.3	57	55.1	56.7	55.7	56.2	55	58.1	55.9	57.2	54.7	54.4	53.4	49.4	47.9				
1955	46.9	45.1	48.6	46.1	53	50	52.1	49.1	58.2	55.1	57.5	55.2	55.4	54.6	56.7	55.4	58.9	56.3	58.6	56.3	53.4	51.5	49.5	48.2				
1956	48.2	47.5	46	45.2																								

141

1/ Type of thermograph and exact location unknown.

2/ From unpublished USFWS data.

YEAR 1966

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1																					-	-	52	52
2																					55	54	53	52
3																					54	53	51	50
4																					54	53	51	50
5																					54	54	51	48
6																					54	53	52	47
7																					53	52	52	49
8																					53	52	53	52
9																					52	52	53	53
10																					52	52	53	50
11																					53	52	53	47
12																					53	52	53	52
13																					53	53	53	52
14																					54	53	52	52
15																					54	53	-	-
16																					54	54	51	51
17																					54	53	51	50
18																					53	53	51	50
19																					54	53	51	51
20																					55	54	51	50
21																					53	51	51	50
22																					51	50	50	50
23																					50	50	51	50
24																					51	50	50	49
25																					52	50	50	49
26																					52	51	49	48
27																					52	51	49	48
28																					52	51	49	46
29																					52	52	49	48
30																					52	52	49	48
31																					49	48		
MAX																								
MIN																								
-No Data.																								

1/ Palmer thermograph located on the west side of diversion dam.

2/ From unpublished USFWS data and USFWS, 1986.

YEAR 1967

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	49	48	50	49	50	49	50	47	54	52	53	52	59	57	57	56	57	55	57	56	54	54	51	51	
2	48	48	50	48	49	49	51	50	54	52	55	51	58	57	57	56	56	55	56	55	55	54	51	51	
3	48	48	49	48	49	48	54	51	54	53	54	53	59	58	57	55	56	55	55	53	55	54	51	51	
4	49	48	49	49	48	47	54	53	55	53	56	55	59	57	57	56	57	55	55	54	55	54	50	50	
5	49	48	49	48	49	48	54	52	55	53	56	55	58	56	57	56	56	56	55	54	55	54	51	50	
6	48	47	50	49	50	49	52	50	56	54	56	53	58	56	57	56	57	55	55	54	56	54	50	49	
7	48	47	51	49	50	50	52	51	57	56	56	55	58	57	57	56	57	55	55	53	55	54	50	49	
8	48	47	51	49	51	50	53	52	58	56	56	54	59	57	57	56	57	55	55	53	55	55	50	49	
9	48	48	51	49	52	51	52	51	-	-	58	57	58	57	57	55	56	55	55	55	56	55	50	49	
10	48	48	50	48	52	51	51	48	53	53	-	-	57	56	56	55	56	56	55	55	55	56	54	52	50
11	49	48	50	49	50	49	51	49	53	51	-	-	58	57	57	55	56	55	56	55	56	55	52	50	
12	49	48	50	49	49	48	54	52	54	51	58	57	58	57	57	55	56	56	56	55	55	55	50	49	
13	49	48	51	49	48	47	52	50	55	52	58	56	58	57	-	-	56	56	56	55	55	55	49	47	
14	50	49	49	47	47	47	51	49	56	53	58	57	58	56	56	55	55	55	55	55	55	55	47	46	
15	50	49	48	47	48	47	52	50	57	53	58	57	58	56	57	56	55	54	55	54	55	55	47	46	
16	50	49	48	46	54	48	51	49	56	54	58	57	58	56	57	56	56	56	55	54	55	55	49	47	
17	48	48	49	48	54	53	50	47	56	54	59	57	58	57	57	55	57	57	55	54	55	55	50	46	
18	49	48	50	48	54	52	51	50	56	54	59	57	58	57	57	56	56	56	55	54	55	55	49	46	
19	49	48	49	48	54	52	51	49	57	54	59	57	58	56	57	56	56	56	55	55	55	54	49	49	
20	48	47	48	47	52	51	51	49	56	54	59	58	58	56	57	56	57	57	56	54	53	49	49		
21	47	46	48	47	52	51	52	50	56	54	59	58	57	56	57	56	57	57	55	54	54	49	49		
22	46	38	49	48	54	52	51	50	56	54	59	58	58	57	57	55	57	57	55	54	54	53	50	49	
23	46	45	49	49	55	53	52	50	57	54	59	57	58	56	57	55	57	56	56	55	53	52	50	50	
24	45	41	49	49	54	53	53	52	56	54	58	57	57	56	57	56	57	57	56	55	53	52	50	50	
25	44	42	49	48	52	52	53	51	55	53	58	57	57	56	56	55	57	56	55	54	53	52	51	50	
26	45	44	49	48	52	51	53	52	55	53	59	57	57	56	56	56	57	56	55	54	52	51	51	51	
27	46	44	49	49	53	52	52	50	56	53	58	57	57	56	57	56	57	55	55	54	53	52	51	50	
28	50	47	50	49	53	52	52	50	57	55	58	58	57	55	57	56	57	56	55	55	52	52	50	49	
29	51	50			52	49	52	50	56	53	59	58	57	55	57	55	57	57	55	54	52	52	50	48	
30	51	50			50	49	53	51	56	54	59	57	57	56	56	55	57	57	54	54	52	51	49	48	
31	50	49			49	47			55	53			57	56	56	55			55	54			48	48	
MAX	51	51	55	54							59					57	57	57	56	52					
MIN	38	46	47	47							50					54	53	51	51	46					

-No Data.

YEAR 1968

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88 (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	48	47	45	45	51	50	-	-	57	55	58	57	56	54	56	54	59	58							
2	48	47	45	44	50	49	-	-	55	55	58	56	56	54	57	56	59	58							
3	48	47	48	44	52	50	-	-	56	55	56	55	55	54	57	57	59	58							
4	47	46	49	47	52	50	-	-	56	56	56	56	56	55	57	57	59	58							
5	48	47	48	48	51	51	-	-	56	56	57	55	56	54	56	56	58	58							
6	47	47	48	48	52	50	-	-	56	54	57	53	56	54	56	56	59	58							
7	47	47	49	49	51	50	-	-	54	54	56	56	57	55	56	56	59	57							
8	47	47	50	49	50	50	-	-	55	54	56	56	56	55	56	56	58	58							
9	47	42	50	49	51	50	-	-	55	55	56	56	56	55	56	56	58	58							
10	-	-	50	50	52	50	-	-	55	55	56	56	57	55	56	56	58	58							
11	42	42	50	50	51	50	-	-	56	55	56	56	56	55	56	56	59	58							
12	44	42	50	50	50	49	-	-	56	56	56	56	56	55	56	56	58	57							
13	46	44	51	50	49	48	-	-	55	53	56	55	57	55	56	56	58	58							
14	47	46	50	50	49	48	-	-	54	52	55	55	57	55	56	56	58	58							
15	47	46	50	49.5	-	-	-	-	53	52	57	56	56	55	56	56	58	57							
16	48	46	52	49	-	-	-	-	56	55	58	56	56	55	56	56	58	57							
17	48	46	52	49	-	-	-	-	57	56	57	56	56	54	56	55	59	58							
18	47	46	52	52	-	-	-	-	56	55	57	56	56	54	57	56	60	58							
19	47	46	54	51	-	-	53	53	57	55	58	56	56	54	56	56	59	56							
20	47	46	54	52	-	-	53	52	55	54	57	56	56	55	57	56	57	54							
21	48	47	54	52	-	-	52	52	56	56	57	56	56	55	58	55	57	54							
22	48	48	54	52	-	-	52	52	56	55	57	56	56	54	57	54	57	55							
23	50	48	54	52	-	-	54	53	56	56	58	57	56	55	58	56	58	56							
24	49	48	54	51	-	-	53	52	56	55	58	57	57	56	58	56	58	55							
25	48	48	51	49	-	-	53	53	56	55	58	56	56	56	58	57	58	56							
26	48	48	50	49	-	-	55	53	57	56	57	56	56	56	56	56	58	56							
27	48	46	50	48	-	-	55	54	58	57	57	55	56	55	57	56	58	56							
28	46	45	50	48	-	-	55	54	58	58	57	55	56	56	59	57	59	58							
29	45	41	50	50	-	-	55	55	59	57	57	57	56	54	60	58	58	58							
30	43	41	-	-	56	55	58	58	58	57	56	56	54	59	58	59	58	59	56						
31	45	43	-	-	-	-	58	58	-	-	56	54	59	58	-	-	-	-	-	-	-	-	-	-	
MAX		54							59		58		57		60		60								
MIN		44							52		53		54		54		54								

-No Data.

YEAR 1969

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
DAY	max min											
1	- -	57 54	60 55	55 53	60 60	60 58	57 56	58 56	58 57	58 53	57 55	- -
2	- -	54 51	55 53	53 50	60 60	57 56	59 57	58 56	58 56	54 52	50 48	
3	- -	51 49	55 53	53 50	60 60	58 56	59 57	58 56	56 54	56 52	50 48	
4	- -	54 47	54 52	52 50	60 60	58 56	58 56	60 57	56 52	56 52	51 49	
5	51 45	52 51	58 54	54 60	60 58	56 56	58 56	60 57	56 50	56 53	50 48	
6	52 44	51 48	59 56	56 60	60 58	56 56	58 56	60 57	56 50	55 53	50 48	
7	54 44	54 48	59 57	60 60	58 58	56 56	58 56	60 58	56 50	52 51	50 49	
8	51 42	54 48	59 56	56 60	58 58	56 56	58 56	60 57	55 53	54 51	50 50	
9	48 45	56 51	60 57	56 54	54 58	57 55	58 56	61 58	56 52	54 50	50 50	
10	49 43	57 51	61 58	56 54	54 59	56 56	59 56	61 58	57 54	54 50	50 50	
11	50 45	58 52	61 58	56 56	56 58	56 56	58 57	61 59	55 53	56 51	50 49	
12	53 46	58 54	60 59	59 59	56 59	57 59	58 57	61 58	55 51	56 51	50 50	
13	53 46	55 49	58 57	60 57	57 59	57 59	59 57	61 58	54 49	56 52	49 48	
14	52 45	56 50	57 55	55 58	57 59	59 57	59 57	60 57	53 51	55 50	50 49	
15	52 46	58 52	57 55	55 58	58 59	57 59	59 57	59 55	52 51	54 50	50 50	
16	53 48	58 52	59 56	56 58	57 59	56 59	59 57	59 55	53 51	54 50	50 50	
17	53 48	60 53	58 55	55 57	57 57	59 57	59 57	58 55	54 49	52 47	50 49	
18	54 49	57 52	58 55	55 57	57 57	59 57	58 56	59 57	54 51	52 47	50 50	
19	54 48	59 53	57 53	53 57	55 55	59 59	57 58	58 56	57 54	51 45	50 50	
20	52 50	59 54	58 54	54 57	57 57	59 57	59 56	58 56	56 51	52 45	54 50	
21	55 47	61 55	59 54	54 57	56 59	57 59	59 56	57 54	58 53	52 46	54 52	
22	54 48	61 56	59 56	56 56	56 59	58 59	59 57	58 54	57 53	53 46	50 48	
23	58 50	56 52	59 56	56 56	56 59	57 59	59 57	58 55	56 53	52 46	49 47	
24	56 50	53 50	59 56	56 58	56 59	57 59	58 56	58 55	57 54	53 46	50 48	
25	56 50	53 49	59 59	58 56	55 55	59 57	58 56	59 56	56 52	53 47	51 50	
26	56 51	56 51	59 57	57 56	54 54	59 57	58 56	60 57	56 52	53 46	50 48	
27	57 52	56 52	58 55	55 56	54 54	59 57	58 56	59 56	55 52	53 48	49 48	
28	58 53	59 53	58 56	56 54	54 54	58 57	58 56	56 55	55 51	52 46	48 47	
29	58 53	58 54	60 58	58 55	54 54	58 56	58 56	58 56	56 52	51 45	48 46	
30	58 54	56 54	60 58	56 55	55 59	57 57	58 58	56 55	56 51	58 58		
31	59 56		60 60			59 57	58 58	56 56	57 53		48 46	
MAX			61	61	60	59	59	61	58	57	58	
MIN			47	52	54	56	56	54	49	45	46	

-No Data.

YEAR 1970

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	46	-	-	-	-	-	-	54	52	61	58	59	57	60	57	60	56	56	50	53	50	46	46
2	48	46	-	-	-	-	-	-	55	52	61	57	61	57	61	57	60	56	57	54	53	50	46	46
3	46	44	-	-	-	-	-	-	56	53	61	58	61	57	-	-	59	56	56	54	52	50	46	40
4	44	44	-	-	-	-	-	-	56	53	61	57	61	57	-	-	60	56	55	53	52	51	45	41
5	44	44	50	46	49	44	-	-	56	54	61	58	62	58	61	58	58	55	-	-	52	51	48	45
6	44	44	50	46	50	46	57	52	54	52	60	58	62	58	-	-	61	56	-	-	52	51	49	48
7	45	44	50	45	50	47	53	49	55	52	59	56	62	58	-	-	61	58	-	-	51	50	49	49
8	46	45	49	46	50	47	54	48	54	63	56	52	61	57	-	-	61	58	57	55	51	50	49	48
9	44	42	50	48	49	45	55	50	52	51	52	51	61	57	61	58	61	57	55	54	52	51	48	46
10	46	44	54	51	49	47	56	52	53	51	55	54	60	57	62	58	61	57	55	52	52	51	48	46
11	46	46	51	49	52	48	54	50	53	50	58	54	60	57	61	58	61	57	56	53	52	51	48	46
12	47	46	52	50	51	48	54	49	50	47	58	54	-	-	61	58	61	57	56	53	52	51	47	45
13	50	47	49	45	56	48	52	48	52	48	56	54	60	57	61	58	59	53	55	53	51	49	46	45
14	50	49	49	44	54	51	51	46	58	51	57	54	60	58	62	58	57	53	54	52	50	48	45	44
15	50	48	50	46	51	47	52	48	60	55	58	54	60	58	62	58	58	54	54	51	49	48	44	44
16	49	48	48	46	56	46	51	47	61	56	58	55	60	57	62	58	59	55	54	52	49	47	44	41
17	50	49	50	45	48	46	51	46	61	57	60	57	59	57	61	58	59	56	54	52	49	48	42	41
18	50	49	46	43	52	47	53	48	60	57	60	57	60	57	61	58	59	56	54	52	50	48	42	41
19	50	49	45	42	53	48	54	50	59	56	61	57	60	57	61	57	58	56	54	52	50	49	41	40
20	51	49	45	41	54	49	52	47	60	55	61	58	60	58	60	57	60	56	53	52	49	48	41	40
21	52	51	46	42	56	49	52	47	61	56	61	58	60	58	60	57	58	55	53	50	50	49	39	36
22	55	50	47	42	56	50	52	48	61	56	61	58	60	58	60	57	58	55	53	50	50	50	39	39
23	53	48	47	42	57	52	53	50	62	56	61	58	60	58	60	56	57	54	51	50	50	47	45	
24	48	48	48	44	59	52	52	48	61	57	60	58	60	58	60	56	-	-	51	50	50	47	46	
25	48	48	49	44	58	56	51	49	61	57	59	57	60	58	60	56	-	-	52	49	51	51	46	
26	48	46	49	45	58	54	50	47	61	58	60	57	60	58	60	56	58	54	51	49	51	48	46	
27	46	46	50	45	55	51	50	46	60	57	60	57	60	58	60	56	56	53	50	48	48	46	46	
28	47	46	50	48	58	52	50	46	60	56	56	54	61	58	60	56	56	53	50	48	46	43	46	
29	46	46	-	-	57	51	51	48	60	56	56	52	60	57	61	57	56	53	51	48	45	43	46	
30	46	46	-	-	55	49	54	50	61	56	58	54	60	57	60	57	56	53	50	48	46	42	47	
31	47	46	-	-	54	50	-	-	60	56	-	-	60	57	60	57	-	52	49	-	48	44	-	
MAX		55							62		61								53		49			
MIN		42							47		51								42		36			

-No Data.

YEAR 1971

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	46	44	46	46	-	-	53	51	55	53	55	53	57	55	56	54	56	55	54	53	50	47	47	46		
2	43	43	48	46	46	44	53	52	54	52	56	54	57	55	56	55	55	54	55	53	51	48	47	46		
3	43	43	48	47	46	46	54	52	54	52	58	56	57	55	56	55	56	54	56	54	51	49	46	44		
4	44	43	46	46	46	45	54	52	53	52	58	54	57	55	56	55	57	55	58	55	51	49	44	43		
5	45	44	46	46	45	45	54	52	54	52	55	54	57	55	56	54	58	55	60	56	52	49	46	44		
6	44	44	48	46	49	46	54	52	54	53	56	54	57	55	56	54	57	55	-	-	51	49	47	46		
7	45	44	48	46	49	46	52	50	55	53	57	55	56	55	56	55	57	55	-	-	50	48	46	44		
8	45	44	48	46	49	47	53	50	54	50	57	55	56	54	56	55	58	55	-	-	49	47	44	43		
9	46	45	47	46	49	46	53	51	54	50	56	54	-	-	57	55	58	56	59	56	49	48	45	44		
10	45	44	49	46	48	47	52	50	56	55	56	54	-	-	57	56	58	56	59	56	50	48	44	44		
11	44	42	51	49	49	49	52	50	57	55	56	54	-	-	58	56	58	56	59	56	51	50	44	44		
12	42	42	-	-	54	48	53	51	57	55	56	54	56	54	58	57	59	56	59	56	50	49	44	43		
13	44	42	-	-	50	46	52	51	56	55	55	53	56	55	57	56	59	56	59	56	49	48	43	42		
14	42	42	-	-	52	46	53	50	57	54	56	54	57	55	57	56	60	57	58	56	48	47	43	42		
15	-	-	-	-	48	44	54	52	56	53	56	55	57	55	56	55	59	57	57	54	48	46	43	42		
16	-	-	-	-	-	-	53	52	54	53	57	56	57	55	56	54	58	56	54	51	47	45	47	42		
17	51	51	-	-	-	-	52	50	54	52	57	55	56	55	56	54	58	56	52	50	48	46	48	46		
18	50	50	-	-	50	47	52	52	50	55	53	56	54	56	54	56	57	55	53	50	49	47	48	47		
19	50	48	-	-	52	47	54	52	56	54	56	54	57	55	56	54	56	54	52	51	49	47	48	46		
20	48	46	-	-	54	49	53	50	57	53	56	56	58	56	55	54	56	54	52	51	50	48	48	46		
21	47	46	-	-	55	51	52	50	54	52	57	56	58	56	56	54	57	55	53	51	50	48	46	46		
22	48	46	-	-	54	51	52	51	57	54	57	56	57	56	56	55	57	55	53	51	50	48	46	42		
23	48	46	-	-	52	50	54	51	58	57	57	56	57	56	56	55	57	55	53	51	49	48	45	42		
24	48	46	48	42	54	51	53	51	58	57	56	55	57	55	56	55	57	55	52	51	49	48	47	46		
25	48	46	47	46	54	50	55	52	58	55	55	52	57	56	55	55	56	54	52	50	49	49	46	45		
26	48	46	46	44	57	52	55	54	57	55	53	52	57	55	55	55	56	54	52	50	49	48	45	44		
27	48	46	46	44	52	51	56	54	56	54	56	53	55	55	57	55	54	53	52	50	49	48	45	44		
28	47	47	46	43	56	49	56	54	55	54	56	55	55	55	55	54	55	53	50	47	48	45	44			
29	47	46	-	-	-	-	-	-	55	53	57	56	55	55	55	54	54	51	47	45	49	48	46			
30	46	46	-	-	-	-	-	-	56	54	58	56	55	55	55	52	52	50	47	45	48	47	46			
31	46	46	-	-	-	-	-	-	55	53	-	-	54	54	55	53	-	48	46	-	47	46	-	-		
MAX									58		58				58		60			52		48				
MIN									50		52				52		50			45		42				

-No Data.

YEAR 1972

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	47	46	44	43	46	44	53	51	55	52	60	57	60	59	58	56	59	57	58	56	50	49	49	48	
2	47	46	43	42	47	45	54	50	57	54	60	56	60	59	58	56	60	58	58	55	51	49	48	48	
3	44	42	44	42	50	48	56	52	58	55	57	57	59	58	58	57	60	58	58	55	51	49	48	48	
4	44	42	45	44	50	48	56	54	58	55	60	58	59	58	58	57	60	58	59	56	52	50	48	47	
5	44	42	46	45	51	49	55	54	57	56	61	59	59	58	58	57	60	58	59	56	53	52	47	45	
6	45	43	47	46	50	49	55	53	55	55	60	58	59	58	59	57	60	57	59	56	53	52	45	43	
7	46	44	47	45	50	49	53	52	55	54	60	58	59	58	60	58	60	57	57	55	51	50	43	42	
8	46	44	47	46	50	49	53	50	54	50	60	58	59	59	60	58	60	57	57	55	51	50	44	42	
9	46	44	47	45	50	48	52	50	55	53	58	52	59	59	60	58	60	57	57	55	51	49	43	41	
10	45	44	48	45	49	48	52	51	58	54	55	54	59	58	60	58	60	57	56	55	-	-	40	39	
11	42	41	48	45	50	48	51	50	58	55	56	56	60	58	60	59	58	56	54	55	54	-	-	40	
12	42	41	48	46	50	49	50	48	58	56	58	56	60	59	59	58	56	54	54	-	-	-	41	40	
13	46	42	48	46	50	48	50	46	59	56	59	58	60	60	58	57	54	54	53	-	-	-	42	41	
14	47	45	48	46	51	49	53	48	59	56	59	58	62	60	58	57	58	55	55	53	-	-	42	41	
15	46	44	47	46	52	50	55	51	59	56	59	58	62	61	58	57	59	56	54	53	-	-	42	41	
16	46	44	49	46	52	50	56	54	58	56	60	58	61	61	58	56	59	56	54	53	50	49	41	40	
17	46	44	49	46	52	50	54	52	56	54	60	58	59	58	56	53	60	57	55	54	50	48	42	41	
18	47	45	49	46	51	50	52	50	56	54	60	58	59	58	56	53	60	57	56	54	49	48	-	-	
19	47	46	49	47	50	49	52	49	55	54	59	58	58	58	57	55	59	57	56	54	48	48	-	-	
20	47	46	49	48	52	49	54	50	53	51	60	58	57	57	58	56	57	56	57	56	54	50	48	40	
21	48	47	50	48	54	50	54	52	51	50	60	58	57	57	58	56	57	56	57	56	54	-	-	47	
22	49	47	48	47	53	52	54	52	54	50	59	58	58	56	59	57	58	55	56	54	-	-	47	46	
23	48	45	48	46	53	50	54	53	57	53	58	53	58	56	59	57	59	56	56	54	49	48	47	46	
24	45	42	47	46	54	49	53	52	58	55	57	56	58	57	56	59	57	57	56	56	54	48	48	46	
25	43	42	46	45	52	48	54	51	58	55	58	57	58	56	56	57	56	54	54	52	49	48	45	44	
26	41	40	47	45	51	48	55	52	59	56	59	58	58	56	60	58	54	53	54	52	49	48	45	44	
27	41	39	48	46	52	48	57	52	59	56	59	58	58	56	60	58	54	53	54	52	50	49	44	42	
28	41	40	50	47	52	49	57	54	60	57	59	58	58	56	60	58	55	53	53	51	50	50	42	42	
29	42	41			53	50	54	52	60	58	59	58	57	56	60	58	58	55	50	49	50	49	41	40	
30	43	41			55	51	54	51	60	58	60	59	57	53	60	58	59	56	49	48	49	41	40		
31	43	41			-	-			60	58			58	56	60	58			50	48			-	-	
MAX	49	50			57	60	61	62	62	60	60	60	60	60	60	60	59								
MIN	39	42			46	50	52	53	53	53	53	53	53	53	53	53	53	48							

-No Data.

YEAR 1973

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	42	41	42	41	49	46	53	46	56	53	56	52	57	55	57	56	56	54	55	54	54	51	50	48
2	42	41	42	41	47	44	53	47	56	53	59	55	57	55	57	55	57	54	55	53	53	50	49	47
3	42	41	42	42	46	42	53	49	56	54	59	55	57	55	57	55	57	54	54	52	51	49	50	48
4	41	40	46	42	45	41	54	51	56	53	58	56	58	56	57	55	58	55	54	52	50	48	50	49
5	41	40	45	43	46	43	55	52	56	52	58	56	58	56	57	55	57	55	54	51	49	47	50	49
6	40	40	45	44	46	44	56	52	56	53	58	56	58	56	58	56	57	55	53	51	49	47	51	46
7	40	39	-	-	48	42	57	51	56	54	60	57	57	55	57	56	58	55	52	51	51	49	50	50
8	40	38	-	-	48	44	55	51	56	53	62	58	57	55	57	56	58	55	53	51	54	51	50	49
9	-	-	-	-	48	46	55	52	57	53	60	57	57	55	57	55	58	56	54	51	55	54	50	49
10	-	-	-	-	49	47	56	53	58	53	59	56	57	55	57	55	58	56	54	52	56	55	49	41
11	-	-	-	-	48	44	57	54	57	54	58	56	57	56	58	55	58	56	54	51	58	56	49	48
12	-	-	46	44	47	44	56	53	57	54	58	56	56	55	58	56	58	56	54	52	58	54	49	48
13	-	-	46	44	47	44	55	52	59	55	57	53	56	56	57	56	58	56	55	52	54	52	49	48
14	-	-	-	-	48	44	54	52	60	57	56	54	57	56	57	55	57	55	55	52	52	52	48	48
15	-	-	46	42	48	45	55	53	60	58	56	54	57	56	58	55	57	55	55	53	52	52	48	47
16	-	-	46	43	49	47	54	50	60	58	56	53	57	56	57	56	57	54	56	53	-	-	47	46
17	-	-	47	44	50	47	54	50	59	58	57	53	57	55	57	55	57	54	56	53	-	-	48	47
18	44	43	47	43	48	45	54	49	60	58	56	54	57	56	57	55	57	55	56	53	-	-	48	47
19	43	41	46	42	47	45	54	50	59	58	57	55	57	56	56	54	58	54	55	53	-	-	48	46
20	41	41	47	42	46	43	54	50	58	57	58	55	56	56	57	55	58	54	55	53	-	-	47	47
21	41	40	47	43	46	42	56	52	57	55	58	55	56	56	57	55	58	54	55	54	-	-	47	45
22	-	-	47	44	50	41	57	53	57	56	57	55	56	54	56	54	54	52	55	54	52	50	47	45
23	-	-	46	44	54	46	58	55	57	55	56	53	56	54	56	54	55	54	54	53	52	51	47	47
24	42	42	50	46	53	47	60	55	56	53	56	55	56	55	55	54	55	53	52	51	52	52	48	46
25	44	42	50	48	54	49	59	55	55	52	58	56	57	56	54	53	56	53	52	50	52	52	48	47
26	41	40	50	48	55	50	59	56	56	54	60	57	57	56	56	53	56	53	53	50	52	50	48	47
27	41	40	49	46	56	50	59	56	57	54	59	57	57	56	56	55	56	53	54	51	52	51	48	47
28	41	40	-	-	55	48	60	56	59	55	59	57	57	56	56	54	56	53	54	51	52	52	49	47
29	41	40	-	-	52	48	59	54	59	56	59	57	57	56	57	55	56	53	53	51	52	52	52	49
30	42	39	-	-	51	46	56	53	58	57	58	55	57	56	57	55	56	53	53	50	52	49	-	-
31	44	41	-	-	52	45	-	-	56	54	-	-	57	56	57	55	-	54	52	-	46	46	-	-
MAX					56		60		60		62		58		58		58		56					
MIN					41		46		52		52		54		53		52		50					

-No Data.

YEAR 1974

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	46	44	46	45	48	46	48	46	-	-	-	-	61	57	58	56	-	-	58	55	51	50	50	50	
2	44	42	46	44	48	46	48	47	-	-	-	-	60	57	58	56	-	-	58	55	51	50	50	50	
3	44	44	45	44	46	42	-	-	-	-	-	-	60	56	58	57	-	-	58	55	52	50	50	50	
4	44	42	46	44	48	44	-	-	-	-	-	-	60	58	58	57	-	-	58	55	52	50	50	49	
5	44	43	45	43	48	47	-	-	-	-	-	-	60	58	58	56	57	56	56	56	52	50	49	48	
6	44	43	45	42	48	46	-	-	-	-	-	-	61	59	58	56	57	56	55	53	52	50	49	48	
7	44	42	46	43	46	41	-	-	58	56	-	-	62	57	-	-	57	55	56	53	52	51	51	50	
8	44	42	46	44	45	40	-	-	58	56	-	-	-	-	-	-	57	56	55	53	51	50	49	49	
9	44	42	47	44	46	43	-	-	58	56	-	-	-	-	-	-	56	56	55	52	51	49	50	49	
10	44	42	46	44	48	46	52	48	56	55	-	-	-	-	-	-	58	56	56	53	52	50	49	48	
11	43	43	47	44	50	47	53	49	56	55	-	-	-	-	-	-	58	56	56	53	52	50	49	48	
12	43	42	46	44	52	47	52	49	56	55	59	58	-	-	-	-	57	55	56	54	52	50	48	48	
13	45	42	45	43	53	47	52	49	55	54	59	56	60	56	58	57	57	55	56	53	52	51	48	48	
14	47	44	46	44	53	49	52	49	-	-	59	57	60	57	59	57	56	54	56	53	53	51	48	48	
15	48	47	46	44	52	49	54	51	-	-	59	56	60	58	58	56	56	54	56	53	53	52	49	48	
16	51	50	47	45	50	48	53	51	-	-	59	56	60	57	57	56	56	55	56	53	52	51	48	48	
17	50	48	46	44	51	48	53	51	-	-	56	51	60	57	57	56	57	55	55	52	51	49	48	48	
18	50	48	45	43	52	49	50	49	52	50	58	55	60	58	57	56	58	55	55	52	52	50	48	46	
19	51	48	46	44	51	47	52	47	53	51	58	56	61	58	58	56	58	55	55	52	51	50	46	46	
20	48	46	46	43	50	48	54	51	55	52	57	52	61	58	58	56	60	56	54	52	51	50	46	46	
21	46	44	45	43	50	48	57	54	56	54	59	56	61	58	58	56	60	57	53	52	50	46	46	46	
22	46	44	-	-	50	48	58	55	57	54	60	58	60	58	59	56	60	57	53	52	50	46	44	44	
23	46	45	-	-	52	49	55	52	57	55	60	58	61	58	59	57	60	57	53	51	50	49	46	44	
24	47	45	-	-	52	51	53	49	58	56	60	56	60	58	59	57	60	56	53	51	51	49	45	44	
25	48	45	-	-	52	50	52	49	58	56	59	56	-	-	59	57	60	56	54	51	52	50	46	44	
26	46	44	47	46	51	50	54	52	60	58	59	56	-	-	59	58	60	57	54	52	51	50	46	45	
27	-	-	46	45	52	49	56	52	60	58	59	56	-	-	59	57	59	56	53	52	51	50	45	42	
28	-	-	46	44	51	49	55	53	58	58	60	57	-	-	58	57	58	55	53	52	51	50	42	40	
29	-	-	-	-	54	51	54	54	-	-	60	58	-	-	58	56	58	55	52	50	49	42	40		
30	-	-	-	-	54	49	57	54	-	-	60	59	-	-	58	56	58	55	52	51	50	49	44	42	
31	45	45	-	-	49	46	-	-	-	-	-	-	58	57	-	-	50	50	-	-	44	42	-	-	
MAX					54													58		53		51			
MIN					40													50		49		40			

-No Data.

YEAR 1975

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
DAY	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	45	43	44	40	-	-	52	48	53	52	56	55	-	-	55	54	-	-	-	-	-	-	-	-	
2	45	43	40	38	-	-	51	48	53	52	56	55	-	-	56	52	57	55	-	-	-	-	-	-	
3	44	43	41	39	-	-	50	46	52	51	58	55	-	-	56	54	57	55	-	-	-	-	-	-	
4	45	43	-	-	-	-	49	44	50	50	58	57	-	-	56	54	58	55	-	-	-	-	-	-	
5	45	44	-	-	-	-	49	44	50	49	59	58	-	-	55	54	59	56	-	-	-	-	-	52	
6	44	43	-	-	47	46	48	44	52	50	59	58	-	-	56	54	61	57	-	-	-	-	-	52	51
7	45	42	-	-	-	-	50	44	52	50	58	57	-	-	55	54	61	58	-	-	-	-	-	52	52
8	44	42	-	-	-	-	46	44	53	52	57	56	-	-	55	54	61	58	-	-	-	-	-	52	52
9	43	42	-	-	-	-	50	46	53	53	57	56	-	-	-	-	-	-	-	-	-	-	-	52	51
10	43	42	-	-	-	-	51	48	53	52	57	56	-	-	-	-	-	-	-	-	-	-	-	51	51
11	44	42	-	-	-	-	54	50	53	51	57	56	-	-	-	-	-	-	-	-	-	-	-	51	50
12	44	42	-	-	-	-	54	51	54	52	57	56	57	55	-	-	-	-	-	-	-	-	-	50	49
13	44	42	-	-	-	-	52	51	54	54	58	56	57	55	-	-	-	-	-	-	-	-	-	49	48
14	44	42	-	-	-	-	50	46	54	54	58	57	57	55	-	-	-	-	-	-	-	-	-	48	48
15	44	42	-	-	-	-	48	46	54	52	58	57	55	52	-	-	-	-	-	-	-	-	-	48	48
16	45	42	-	-	-	-	50	48	54	52	57	57	56	51	-	-	-	-	-	-	-	-	-	50	48
17	44	43	-	-	-	-	51	48	54	54	57	55	57	54	-	-	-	-	-	-	-	-	-	50	50
18	46	44	-	-	-	-	50	50	55	54	55	54	57	55	-	-	-	-	-	-	-	-	-	50	50
19	45	44	-	-	-	-	52	50	55	54	55	54	56	55	-	-	-	-	-	-	-	-	-	50	49
20	46	44	-	-	-	-	53	51	53	51	56	54	56	55	-	-	-	-	-	-	-	-	-	50	49
21	47	44	-	-	-	-	53	52	52	51	57	55	57	55	-	-	-	-	-	-	-	-	-	49	48
22	47	45	-	-	-	-	52	50	53	52	58	56	57	55	-	-	-	-	-	-	-	-	-	50	48
23	46	44	-	-	-	-	50	48	54	52	57	56	57	55	-	-	-	-	-	-	-	-	-	50	49
24	47	44	-	-	-	-	50	47	55	54	57	56	57	55	-	-	-	-	-	-	-	-	-	50	49
25	47	45	-	-	-	-	48	47	54	54	-	-	56	55	-	-	-	-	-	-	-	-	-	50	48
26	46	45	-	-	-	-	50	48	55	54	-	-	57	55	-	-	-	-	-	-	-	-	-	50	48
27	44	41	-	-	-	-	52	50	56	54	-	-	57	55	-	-	-	-	-	-	-	-	-	50	49
28	42	40	-	-	-	-	53	51	57	56	-	-	56	55	-	-	-	-	-	-	-	-	-	51	49
29	42	40	-	-	51	49	53	52	57	56	-	-	55	54	-	-	-	-	-	-	-	-	-	51	50
30	42	40	-	-	52	48	52	52	58	56	-	-	54	53	-	-	-	-	-	-	-	-	-	50	49
31	41	40	-	-	-	-	-	-	58	57	-	-	54	53	-	-	-	-	-	-	-	-	-	48	47
MAX	47				54		58				57														
MIN	40				44		49				51														

-No Data.

YEAR 1976

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									54	52	58	57	62	61	68	65	64	64	54	52	49	48			
2									54	52	58	57	62	61	68	66	64	61	55	53	49	48			
3									55	53	58	57	62	61	69	66	61	60	55	54	49	48			
4									55	53	59	57	62	61	68	66	61	58	55	54	49	48			
5									55	53	60	58	62	61	68	66	62	59	54	53	50	49			
6									54	54	59	58	62	61	67	65	63	60	54	53	50	49			
7									54	54	59	58	62	61	66	64	63	61	55	53	50	48			
8									54	54	60	58	63	61	67	64	64	61	54	53	48	48			
9									54	54	60	59	64	63	68	64	62	60	53	52	48	47			
10									54	54	60	60	65	63	67	64	61	59	54	53	47	46			
11									54	54	60	60	65	63	64	62	61	58	54	53	47	46			
12									55	54	60	58	64	63	64	62	60	58	54	53	47	46			
13									55	53	60	59	64	59	67	63	60	57	54	53	47	45			
14									56	55	59	58	61	60	67	63	58	56	53	53	46	45			
15									56	56	60	59	60	59	66	62	58	56	54	53	47	45			
16									58	56	60	59	61	59	64	62	57	55	56	54	47	45			
17									58	57	60	60	61	61	64	62	57	54	56	55	46	45			
18									57	57	60	59	61	60	65	62	56	54	56	55	45	44			
19									57	57	60	60	63	60	66	63	56	54	56	55	45	43			
20									57	57	60	60	65	63	66	63	57	54	55	54	45	43			
21									57	57	61	60	66	65	64	62	56	54	54	54	44	43			
22									58	57	61	60	68	64	64	62	56	55	53	53	44	43			
23									59	57	61	60	65	63	64	62	57	55	53	53	45	44			
24									59	58	62	61	67	64	64	62	56	55	52	52	45	44			
25									56	54	59	58	62	61	67	65	63	62	55	54	52	51	45	44	
26									56	54	59	58	63	62	66	64	63	62	54	52	51	50	45	44	
27									56	54	59	59	62	62	67	64	63	62	54	52	50	48	44	42	
28									55	53	59	59	62	60	67	65	62	62	54	52	46	46	43	42	
29									54	52	60	59	62	60	68	65	63	62	53	52	47	46	43	42	
30									54	52	60	59	62	62	68	65	64	63	52	51	49	47	44	43	
31									54	52			62	61	67	65			53	51			45	44	
MAX													60		63		68		69		64		56		50
MIN													52		57		59		62		51		46		42

YEAR 1977

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min		
1	44	44	45	43	47	45	52	48	53	52	66	60	62	60	70.5	68.5	73.5	72	-	-	54.5	53.5	50.5	50		
2	44	42	44	42	45	44	52	48	53	50	66	60	64	61	70.5	68.5	-	-	-	-	54.5	53.5	50	49		
3	42	42	44	42	47	44	53	50	53	52	62	58	64	63	70.5	68.5	-	-	-	-	54.5	53	50	48		
4	43	42	45	42	47	44	54	50	54	51	63	58	64	62	70.5	68.5	-	-	-	-	54.5	53	50	48.5		
5	42	40	45	42	47	44	55	52	52	50	65	60	64	62	69.5	67.5	-	-	63	62	54	52	50.5	49		
6	42	40	45	43	47	44	56	52	53	50	65	61	64	62	69.5	66.5	-	-	63	62	52	50	50	50		
7	41	40	46	43	47	45	56	52	55	50	64	61	66	63	68.5	66.5	-	-	62	60	52	50	50	50		
8	41	40	46	44	47	44	54	52	53	52	64	60	66	63	68.5	66.5	-	-	62	60	52	50	50	48		
9	40	40	46	44	50	46	52	48	51	50	64	61	66	64	69.5	66.5	-	-	62	60	50	48	48.5	47.5		
10	41	40	47	44	47	45	51	50	51	50	62	58	66	64	69.5	66.5	73	72	62	60.5	50	48	47	46		
11	41	40	47	44	47	44	54	50	54	51	60	57	66	64	70.5	66.5	72.5	71	63	60	50	49	46	46		
12	42	42	47	45	47	45	55	51	58	54	62	58	67	65	70.5	68.5	72	70.5	63.5	60.5	50.5	50	47	46		
13	42	42	49	45	46	44	56	52	58	54	62	59	67	65	70.5	66.5	-	-	63	60.5	52	50	47	47		
14	43	42	49	46	46	43	54	51	58	55	62	58	67	65	69.5	66.5	-	-	62	60	51.5	50	47	47		
15	43	42	48	46	46	44	54	50	56	53	62	59	68	65	70.5	66.5	-	-	62	60	51	49	48.5	47		
16	43	42	48	46	44	42	55	51	56	53	63	60	68	66	70.5	66.5	-	-	62	60	51	49	47.5	44.5		
17	43	42	48	46	47	43	53	50	56	53	62	60	68	66	69.5	65.5	-	-	62	59.5	50	49	44.5	41		
18	43	42	48	46	48	45	52	50	55	53	62	58	68	66	69.5	65.5	-	-	60.5	59.5	49	47	42	41		
19	42	41	48	46	48	45	52	49	57	52	62	60	69	67	70.5	66.5	-	-	60	58.5	-	-	41	40		
20	42	41	48	46	50	46	52	50	60	55	63	61	69	67	70.5	67.5	-	-	59.5	58.5	-	-	41	40		
21	44	42	46	44	51	48	53	50	61	57	66	61	69	67	71.5	67.5	-	-	59	57	-	-	41.5	41		
22	45	43	47	45	52	49	53	50	60	56	65	63	69	67	71.5	68.5	-	-	58.5	56	-	-	45	41.5		
23	46	44	48	45	52	49	53	50	56	55	65	63	69	67	71.5	68.5	-	-	57.5	56.5	-	-	48	45		
24	45	44	47	44	50	47	53	50	58	54	66	63	69	67	69.5	66.5	-	-	58	56.5	-	-	48	47		
25	44	42	46	43	48	44	52	50	58	56	65	63	69	67	67.5	64.5	-	-	59	57.5	-	-	48	45		
26	44	42	47	44	51	46	52	50	58	55	65	63	70	68	67.5	64.5	-	-	59	57.5	-	-	46	44		
27	44	42	47	45	52	48	53	50	58	54	65	63	70	68	69.5	66.5	-	-	58	56	-	-	46	44		
28	44	42	49	46	50	47	54	51	60	55	66	63	70	68	71.5	66.5	-	-	56	54.5	-	-	48	46		
29	44	43	49	46	54	52	61	56	66	64	71	68	72.5	68.5	-	-	54.5	54	-	-	49	47.5				
30	43	42	49	46	54	52	62	56	66	61	72	69	72.5	68.5	-	-	54.5	53.5	-	-	49	48				
31	43	42			50	46			64	56			72	70	71.5	68.5			55	53.5			48	47		
MAX	46	49	52	56	64	66	72	72.5													50.5					
MIN	40	42	42	48	50	57	60	64.5													40					

-No Data.

YEAR 1978

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	46.5	45	53	48.5	54	50.5	-	-	62	61	60	58	61	60	61	60	-	-	-	-	50	47.5	
2	-	-	46.5	45	53.5	51.5	53	48	-	-	64	58.5	60	57	61	58	59	58.5	-	-	-	-	50	48	
3	-	-	50	45	53	51	53	51	-	-	63.5	59	60	56.5	60.5	58	59	58	61	60	-	-	49	46.5	
4	-	-	51	49.5	-	-	-	-	-	-	65	60	61	57	60.5	58	59	58	60.5	58	-	-	48	46.5	
5	47	47	53	48	-	-	54	52	-	-	66	60.5	61	57.5	61	59	59	58.5	60	58	-	-	48	46.5	
6	49	47	51	48	-	-	53	51	-	-	65	61.5	61	58	61	59	59	58.5	60	58	-	-	48	46.5	
7	49.5	46.5	50	45	-	-	51.5	49.5	-	-	64	60.5	60.5	58	62	59	59.5	58	60	57	-	-	47.5	45	
8	50	48	47.5	44	-	-	54	46	-	-	64	60	61	57	62	59	62	57.5	59.5	56.5	-	-	43.5	42.5	
9	50	49	48	45.5	-	-	56	51	58	56	64	60	62	58	60.5	59	59	58	59	56	-	-	43.5	43	
10	51	47	48	44	-	-	55	52	58	56	62	59	62	60	60	58	58	56	59	56	-	-	44.5	43	
11	50.5	50	48	42.5	-	-	55	54	58	56	62	57.5	62	58	60	58	60	56.5	59.5	56	-	-	46	44	
12	50.5	48	45	40.5	-	-	56	54	58	55	60	58	61	58	59	58	61	57.5	60.5	57	-	-	47	46	
13	50.5	49	45	40	-	-	56	53	60	56	60	57	61	57.5	58	57	61.5	57	61	58	-	-	47	46	
14	49.5	47	48.5	42.5	-	-	54	52.5	60	57	60.5	57	60	57.5	58	56	61.5	58	60	58	-	-	47.5	45	
15	49	46	49	44	-	-	52	51	58	56	60	56	60	58	58	58	63	59	59.5	57	-	-	47	45	
16	49	46	48	44	-	-	51	49	58	53	58.5	55	60	58	58	58	63	60	59.5	57	-	-	46	44	
17	49	48	46	44	51	49	50	47	60	54	60	56	61	58	58	56	61	58	59	56.5	50	47	45	44	
18	50	48	52	45	54	51	50	48	61	56	60	57	60	58	58	56.5	59	56	59.5	56	50	46	45	44.5	
19	49.5	47.5	52	47.5	53	51	51.5	50	61	57	60	56.5	60	58	59.5	56.5	58.5	56	58	57	50	48	45.5	44	
20	50.5	47.5	52	48.5	54	52	52	51	61	57	60.5	56.5	60	58	59	56	59	56	59	56	57.5	56	50	44	43
21	49.5	48	52	49	54	52	51	50	61.5	58	60	56	60	58	59	57	59	56	57	55	50	49.5	43.5	42.5	
22	48	46	52.5	50	54	52	51.5	49.5	62	58	60.5	57	60	58	59	57	59	56	57.5	55.5	50	48.5	44	42.5	
23	45	44.5	54	50.5	53	52	53	50.5	61	56	60.5	57.5	61	58	58.5	55	61.5	56.5	57	55	50	48.5	44	42.5	
24	45	43	52	51	54	52	54	52	59	55	60.5	57.5	61	58	59	55.5	61.5	56.5	57	54.5	50	46	44	43	
25	50	44	52.5	50.5	56	52	55.5	52	57.5	54	60	56	60	58	59.5	56.5	62	59	56	54	50	47	44	44	
26	49	44	55	51	56	52.5	57	53	60	54	60	56.5	60	58	60	57	60	59	56	54	50	46	44	43	
27	50	44	54	50.5	56.5	53	60	55	61	55	59	56	61	58.5	60	57	59	57	56	54	49.5	47	44	43.5	
28	50	45	54	48.5	58	54	60.5	58	64	58	60	56	61	59	60.5	57	60	56	56	54	50	47	44	43	
29	51	46.5	-	-	58	55	62	58	65	59	59	56.5	60	58	61	58	61	57.5	55	53	50.5	48.5	44	43.5	
30	50.5	46	-	-	58	55	58	56	65	59	60	57	60	57	61	59	61.5	58	53	52	-	-	44	42	
31	47.5	46	-	-	56	52	-	-	-	-	61	58	61	58	-	-	52	51	-	-	42	41	-	-	
MAX			55								66		62		62		63			50					
MIN			40								55		56.5		54		56			41					

-No Data.

YEAR 1979

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min																						
1	-	-	44	42.5	48	44	-	-	62	56	62	58	56.5	55.5	59	58	61	59	62	58	54	53	50	48
2	43	42.5	44	41	47.5	46	53	51	57	60	63	57.5	56	55	59	57.5	61	58	62	60	54	53	50	49
3	44.5	43	43.5	41	48	44.5	53	51	61	56	62	58	56.5	55	59	58	61	60	62	60	53	53	50.5	49
4	46	44	46	43	48	44.5	55.5	51	60	57	62	58.5	57	55.5	58.5	58	61	60	62	60	53	53	50.5	49
5	47.5	46	47	44	52	47.5	57	53.5	58	54	62	58	57	55	58	58	63	59	61	60	59.5	53	52.5	50
6	47	46	48	45	54	51	56	53.5	56.5	52.5	62	58	57	55	58	57	64	60	60	59	54	53	52	49
7	46	46	48	46	56	53	57	53.5	52.5	50	61	56	57	55	58	57.5	64	60	59	58	54.5	53	52	50
8	46	45.5	49	46	58	54	56	53	54	50	59	55	56.5	55.5	59	57.5	64	61	59	58	55	52	52	50.5
9	46.5	46	49	47	56.5	54	59	53.5	58	51	58	55	56	54.5	59.5	58	64	60	59	57.5	54	52	51	50
10	47	46	49	47.5	56	53	54	51	60	54	58	56	56.5	54	60	58	63.5	60	60	58	53	51	50	47
11	48	47	49	48	56	53	55.5	51	62	56	58	56	57	55	60	58	63.5	60	60	58	52	50.5	47	46
12	48	46	48	47	56	53	56.5	54	61.5	56.5	59	56	59	56	60.5	58	64	60.5	58	56	52	50	46	46
13	46	45	47	46	55.5	53.5	58.5	55	61	56.5	59	57	59.5	58	60	58	64	60	58	57	52	50	47	45
14	45	44	47.5	45	55.5	54	60	56.5	61.5	57	57	56	59	57	-	-	64	60	58	58	51	49.5	47	45
15	44	42.5	47	44	54.5	51	59	56	61.5	57	57	55	59	56	-	-	64	60.5	61	58	51	50	47	45
16	44.5	43	46	43	51	50	58	54	61	57.5	57	53	58	56	-	-	64	60.5	60	58	51	50.5	47	45
17	44	43.5	47	44	50	48	54	52.5	64	57	56	53	58	56.5	-	-	64	61	59	58	52.5	51	47	45
18	45	44	46.5	44.5	54	50	54	51.5	64	58.5	56	53	58	56.5	-	-	63	61	59	57.5	52.5	51	47	45.5
19	45	44	46	43	53	48.5	55	50	64	59.5	57	54	58	56.5	-	-	62	60	56	56	52	49	47.5	46.5
20	46	44	46	45	54.5	50	56	51	63	59.5	58	56.5	58	57	-	-	62	60	56	55	50	48	48	48
21	46	44.5	48	44	54	52	57.5	52.5	62	59.5	57.5	56	58.5	56	-	-	62	60	55	53	49	47	48.5	48
22	46	44.5	48	45	54	51	56	53	61.5	59	58	55.5	58	56	-	-	62	60	54.5	53.5	48.5	48	46	42
23	45	44	45	43	54	50	53	51.5	61	58.5	58	56	58.5	57	-	-	61.5	59.5	55	54	48.5	48	46	42
24	44.5	44	48	45	55.5	52	54	51	62	57.5	59	56.5	58.5	57.5	-	-	62	60	55	54	49	48.5	44	40
25	44	43	49.5	46.5	56	53.5	55	52	63	59	58.5	57.5	58.5	57	-	-	62	60	58	56	49	48	44	42.5
26	43	41	50.5	47	56	54	55	53	62	59	58	57	58.5	57	-	-	61	60	59	58	49	48	44	42.5
27	44	42	51	48	54	52	56	53	62	58	58	56.5	58	57	-	-	62	59	57	55.5	48	46	43.5	43
28	43	41	51	48	54	50	58.5	55.5	61	56	57	56.5	58	57	-	-	61.5	60	56	55	47.5	46	43.5	43
29	42.5	41.5			52	50	58	55.5	60	54	57	56.5	58.5	57	-	-	61.5	59	55	53.5	49	47	45	43
30	42	42			52.5	50.5	58	55	60	55	56	55.5	58	57	-	-	62	59.5	54	53	49	48	45	43
31	42.5	42			54	50			62	56			59	57	61	58.5			54	52	-	-	48	43
MAX			51		58			64		63		59.5				64		62			52			
MIN			41		44			50		53		54				58		52			40			

-No Data.

YEAR 1980

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	50	46	45	43	-	-	54	50	59	57	62	58	60	59	62	58	-	-	59	56	51	51	48	48
2	48	46	46	45	-	-	51.5	49	60	56	61	57	60	58	62	59	-	-	59	56	51	50	48	47
3	48	46	47	46	48	48	51	49.5	60	56	58.5	56.5	60	58	62	59	-	-	59	56	51	50	48	47
4	48	46	48	46	48	45	51	49	60	56	56.5	53	60	58	62	59	-	-	59	56	53	51	49	48
5	47	46.5	48	47	48	47	52	48	60	57	56	52.5	59	58	61	59	61	60	59	56	53	51	48	48
6	47	46	49	46	50	46	53	50	60	57	58.5	55	59	58	61	59	61	58	59	56	53	52	48	46
7	47	46	48	46	50	47	52	50	60	56	58.5	56	59	58	61	59	61	58	58	56	54	52	47	46
8	48	46	47	45	52	47	52	50	58	55	58	56	59	57	61	59	62	58	58	56	53	52	46	45
9	47.5	47	47	46.5	51	47	54	51	55	52	58.5	56	57	55	61	59	62	59	58	56	53	52	46	45
10	47.5	45	47	46	52	48	56	51.5	53.5	50	58.5	56.5	58	55	61	58	62	60	57	55	51	50	46	45
11	45	44	47	46	52	49	56	52	55	53	58	55.5	59	56	60	58	62	59	57	55	51	50	46	46
12	-	-	47	45	51	46	56.5	53	55	53	56	55	59	57	61	58	62	59	57	55	51	49	47	45
13	-	-	47	45	48	47	57	53	55	53	56	54	59	57	61	58	62	59	54	53	50	48	47	45
14	-	-	47	45	48	47	56.5	53	58	53	56	54	60	58	61	58	60	58	54	53	49	47	47	45
15	-	-	47	46	49	46	57	54	58	55	57	55	60	58	60	59	58	55	53	52	49	47	46	44
16	-	-	50	48	49	45	58	53.5	60.5	56.5	57	55.5	60	58	61	58	59	56	53	52	49	47	48	45
17	-	-	51	50	49	46	58.5	55	62	57	58	56	59	58	61	59	59	56	53	52	49	47	49	47
18	-	-	54	51	49	45	58	55	62	58	58	56.5	58	57	61	59	60	57	53	52	50	48	48	47
19	-	-	52	51	50	47	60	55.5	63	58	58	57	59	57	61	59	60	57	53	52	50	48	48	47
20	-	-	50	48	51	49	60	56	64	59	57.5	56.5	60	58	61	58	60	58	54	52	50	48	49	48
21	-	-	52	47	52	48	56	52	64	59.5	58	56.5	59	58	61	59	58	60	58	54	53	50	48	47
22	-	-	52	48	53	49	53	51.5	64	59	58	56	59	58	62	59	58	56	55	54	49	48	49	46
23	-	-	52	49	54	50	55	52	58.5	55.5	56	55	60	58	62	59	59	56	56	54	49	48	49	48
24	-	-	-	-	52	48	57.5	53.5	56	54	57	55.5	60	58	62	59	60	57	54	54	51	49	49	48
25	-	-	-	-	54	47	58	55	56.5	53	58	56	60	58	62	59	60	57	54	54	50	48	48	47
26	-	-	-	-	53	50	60	56	57.5	54	58	56.5	60	59	62	59	60	57	54	54	49	47	49	49
27	-	-	-	-	56	50	60.5	56.5	58	54.5	58.5	56.5	60	59	62	59	59	57	54	54	49	47	49	48
28	-	-	-	-	55	51	61	57	59	55	60	58	59	57	62	59	59	56	54	53	49	47	49	48
29	-	-	-	-	55	52	62.5	57.5	60	55.5	60	57	59	56	62	59	59	56	53	52	49	48	49	48
30	-	-	-	-	56	52	62	57	60.5	57	60	57	60	59	60	57	59	56	53	52	49	48	49	48
31	-	-	-	-	56	50	-	-	62	58	-	-	60	59	62	58	-	-	-	-	48	46	-	-
MAX							62.5		64		62		60		62					54		49		
MIN							48		50		52.5		55		57					47		44		
-No Data.																								

YEAR 1981

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1	45	43	51	47	50	48	60	58	60	57	58	57
2	45	43	50	49	51	48	58	56	60	57	58	58
3	45	43	51	49	51	49	57	55	60	57	58	63
4	46	44	51	48	52	50	56	53	62	58	57	58
5	45	43	51	47	53	51	57	52	62	58	57	63
6	44	43	51	48	53	51	55	51	60	59	57	55
7	45	43	52	49	54	51	55	52	58	55	56	60
8	46	44	53	50	54	52	56	52	58	55	57	59
9	45	44	53	51	55	52	56	53	58	55	56	59
10	48	45	54	52	56	52	57	55	58	55	57	59
11	49	48	54	52	56	53	57	54	56	55	56	58
12	50	47	54	53	56	53	57	54	56	56	59	60
13	50	49	53	52	56	52	56	54	56	53	56	58
14	51	50	54	50	57	53	56	54	56	53	57	60
15	51	50	50	47	57	53	56	53	58	57	59	58
16	51	50	51	48	58	54	54	51	59	56	57	55
17	52	48	51	49	58	55	54	51	59	56	57	55
18	51	49	50	48	57	55	52	51	60	56	57	56
19	52	51	50	48	52	50	53	52	60	58	59	58
20	52	48	50	47	55	51	54	52	60	58	65	62
21	49	45	52	47	56	53	55	54	58	58	57	58
22	48	46	54	50	58	55	56	54	58	59	57	58
23	51	49	54	50	58	56	56	55	58	57	59	58
24	51	48	54	51	58	57	57	56	59	58	62	60
25	49	46	54	50	57	54	56	56	58	59	60	58
26	47	45	52	48	54	52	56	54	58	57	59	58
27	46	45	52	50	56	52	57	54	58	59	61	60
28	49	47	52	51	58	54	57	56	58	59	61	60
29			51	48	60	56	58	56	58	57	62	60
30			51	49	60	56	58	57	58	58	60	58
31			51	49		60	57		58	57	63	60
MAX	52	54	60	60	62	59	63	65	62	58	51	
MIN	43	47	48	51	53	53	57	58	53	46	44	

YEAR 1982

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	43	44	42	45	43	44	42	51	49	55	54	-	-	57	56	55	53	53	51	52	50	46	46
2	43	41	45	43	50	46	44	41	51	49	56	54	-	-	56	55	56	54	55	53	52	50	46	45
3	42	41	45	43	49	46	47	44	52	50	56	53	-	-	56	55	55	53	55	52	51	49	47	46
4	41	37	44	42	47	44	48	44	53	52	55	52	58	56	55	54	56	53	55	53	51	48	48	47
5	41	38	42	40	48	44	47	44	53	51	55	52	58	55	55	54	57	55	55	53	50	48	48	47
6	41	40	42	40	48	44	48	44	54	52	55	53	58	56	56	54	57	55	54	50	51	48	48	48
7	42	40	42	41	47	44	48	43	53	52	56	54	59	56	56	53	58	55	51	49	50	49	48	45
8	43	41	43	41	46	44	49	44	54	52	56	54	58	56	56	53	59	56	53	50	50	48	45	45
9	44	42	43	42	47	45	51	46	53	51	57	55	58	56	56	55	58	56	54	51	49	47	46	44
10	44	42	43	42	48	46	50	49	53	51	58	55	59	56	56	55	57	55	55	51	49	48	46	43
11	44	42	44	42	48	46	52	50	53	52	57	54	59	57	56	55	56	54	55	53	50	47	46	43
12	43	42	44	41	51	46	48	46	54	53	55	54	60	57	56	55	57	54	55	53	50	47	45	44
13	43	42	44	43	49	46	47	45	55	53	56	53	59	57	56	55	56	54	55	53	48	46	45	43
14	43	42	42	45	44	47	46	45	56	54	58	55	60	57	56	55	56	53	55	53	48	46	44	42
15	42	41	48	45	49	45	48	46	56	54	59	57	59	56	55	55	55	53	53	48	46	43	42	
16	42	42	51	48	47	44	48	46	57	55	60	57	58	55	56	55	55	53	53	47	46	45	42	
17	42	41	50	46	45	42	50	47	57	54	60	58	57	55	55	54	54	52	54	52	46	45	43	
18	41	40	48	44	47	42	50	46	55	53	61	59	57	55	56	54	52	51	54	52	46	45	43	
19	40	40	47	44	46	43	50	47	55	54	60	58	57	55	55	53	52	50	53	51	46	45	44	
20	39	38	48	45	47	44	50	47	56	55	60	58	57	55	55	53	54	52	54	51	47	46	44	
21	39	37	47	45	49	42	51	48	57	55	60	58	58	56	56	54	55	53	53	53	48	47	44	
22	39	38	46	43	50	46	52	49	57	56	60	58	58	56	56	54	55	53	54	53	48	48	42	
23	41	39	45	43	49	46	54	50	58	56	60	58	58	56	57	55	57	53	55	53	50	48	43	
24	41	40	46	43	50	48	56	52	60	58	59	57	58	56	57	56	58	55	54	54	48	47	42	
25	42	41	45	43	51	49	56	52	59	56	58	56	57	55	57	56	58	55	55	54	48	47	44	
26	44	42	46	44	52	49	55	52	56	56	58	56	57	56	56	55	58	55	53	51	48	48	42	
27	43	41	45	44	50	46	52	49	55	54	58	56	57	56	56	54	57	55	52	50	48	48	44	
28	42	40	46	44	48	47	50	48	54	53	57	54	58	56	55	53	57	54	51	48	48	48	42	
29	42	40			48	45	50	48	55	54	57	54	58	56	56	53	55	53	50	50	48	46	41	
30	44	41			45	42	51	49	55	54	56	55	58	57	55	54	55	52	52	50	48	47	41	
31	44	42					44	42			54	54			57	57	55	53			52	51		41
MAX	45		51		52		56		60		61				57		59		55		52		48	
MIN	37		40		42		41		49		52				53		50		48		45		39	

-No Data.

YEAR 1983

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
DAY	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	40	38	44	42	50	47	50	48	52	51	54	52	55	54	-	-	55	52	54	53	55	55	49	48
2	41	38	44	42	49	48	50	48	53	51	55	53	54	52	-	-	55	52	55	54	55	54	49	49
3	41	40	-	-	49	47	49	44	54	51	57	55	55	53	-	-	55	54	55	54	55	54	49	43
4	42	41	44	42	50	47	53	43	54	50	57	56	56	54	57	55	56	54	55	53	55	54	45	43
5	42	41	43	42	50	47	50	45	51	49	56	55	56	55	57	55	56	55	55	54	54	53	47	46
6	41	41	44	42	49	47	50	45	51	46	56	53	57	55	57	55	57	56	55	54	54	53	47	46
7	42	40	44	42	49	48	50	47	54	51	54	53	57	55	57	56	58	56	55	55	53	49	47	46
8	43	41	45	43	48	47	51	50	52	49	54	53	56	55	57	56	59	56	55	54	51	47	47	46
9	43	41	46	44	51	47	50	48	51	46	55	54	56	55	57	56	58	56	55	54	50	50	47	46
10	42	41	45	44	50	48	50	47	51	46	55	52	56	55	56	55	59	56	55	54	50	50	47	47
11	42	40	-	-	51	48	49	47	51	48	54	51	-	-	56	55	60	56	55	54	51	50	47	38
12	42	40	47	45	49	47	51	47	52	49	55	53	-	-	56	55	61	57	55	54	51	51	46	44
13	41	40	48	45	52	50	52	47	53	50	54	54	-	-	56	55	61	57	55	54	53	50	47	46
14	41	39	45	44	50	46	53	48	54	50	54	54	-	-	57	55	61	58	54	53	51	50	47	47
15	41	40	44	44	46	44	53	49	55	52	55	54	-	-	57	56	60	57	54	51	51	50	47	46
16	42	41	45	44	46	44	53	51	61	54	55	55	-	-	57	56	60	57	54	51	51	50	47	45
17	44	42	46	44	46	44	54	52	61	55	56	54	-	-	57	56	59	57	55	52	52	50	47	45
18	44	43	48	45	49	44	52	50	60	55	54	53	-	-	57	56	59	56	55	51	51	48	45	45
19	44	41	45	43	49	47	54	50	57	56	55	53	-	-	56	54	59	56	55	52	49	49	46	43
20	41	40	45	43	48	46	54	52	56	55	55	53	-	-	55	53	57	55	55	53	49	48	45	43
21	40	40	46	44	48	46	55	53	57	56	55	53	-	-	55	54	57	55	55	53	48	46	-	-
22	40	39	-	-	48	44	54	53	57	56	55	54	-	-	56	54	57	55	55	53	48	47	-	-
23	44	39	47	45	48	44	51	50	57	57	55	54	-	-	56	55	57	55	57	54	47	46	-	-
24	46	44	49	45	48	43	48	46	58	56	55	54	-	-	56	55	57	56	56	54	46	45	-	-
25	45	44	47	42	50	46	50	47	57	55	55	54	-	-	55	55	57	55	55	53	46	43	-	-
26	46	44	47	43	49	46	51	50	57	55	55	54	-	-	56	55	57	55	55	53	47	45	-	-
27	47	46	47	45	51	45	52	50	57	55	55	55	-	-	55	54	56	55	55	53	48	45	-	-
28	46	44	48	46	49	42	54	49	57	55	55	53	-	-	55	54	55	54	55	53	49	46	-	-
29	45	42	-	-	48	46	53	50	56	54	55	54	-	-	55	55	55	54	54	53	47	45	-	-
30	44	43	-	-	49	46	53	52	56	54	55	54	-	-	56	55	55	53	54	53	48	47	-	-
31	44	42	-	-	50	48	-	-	56	54	55	52	-	-	-	-	-	-	55	54	-	-	-	-
MAX	47				52	55			61		57				57		61		57		55			
MIN	38				42	43			46		51				53		52		51		43			

-No Data.

YEAR 1984

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	-	-	45	43	47	44	47	46	49	48	57	55	56	55	57	56	64	61	60	57	54	49	52	46
2	45	42	44	42	51	46	51	47	50	49	61	55	57	55	57	56	64	61	60	57	55	51	46	44
3	47	42	44	41	-	-	52	48	51	50	60	54	57	56	57	56	64	61	60	57	56	52	51	44
4	46	44	45	41	-	-	51	50	53	50	55	52	57	55	57	56	64	61	60	57	56	52	51	44
5	46	45	45	43	-	-	51	49	54	50	54	52	57	55	57	56	64	61	60	57	56	52	51	41
6	45	44	45	43	-	-	53	49	53	49	53	51	58	56	57	56	64	61	60	58	54	52	52	48
7	44	43	45	42	-	-	52	49	53	50	56	50	57	56	57	56	65	61	60	58	55	52	55	46
8	43	43	45	43	-	-	51	49	55	51	57	53	57	56	58	56	65	62	61	58	55	52	52	46
9	43	43	46	44	-	-	49	45	55	53	57	53	57	54	58	56	65	62	61	57	54	50	51	50
10	44	42	43	41	-	-	48	45	55	52	57	53	57	55	59	58	65	62	59	57	53	51	51	50
11	44	41	43	41	-	-	49	45	55	52	61	54	56	55	60	58	64	61	58	56	52	51	56	46
12	43	41	41	41	50	48	51	47	55	52	57	55	57	55	60	57	63	61	59	56	52	52	50	48
13	42	40	46	41	-	-	53	49	55	53	57	55	58	56	59	57	63	60	59	57	53	50	48	46
14	41	39	44	41	50	48	54	50	55	51	60	55	58	56	59	57	64	60	58	56	52	50	47	45
15	40	40	42	41	49	47	56	51	53	50	60	55	57	55	60	57	64	61	56	53	50	50	46	45
16	41	40	43	40	47	44	55	52	53	50	59	56	58	56	59	57	64	61	55	51	52	50	45	43
17	41	39	43	40	46	42	53	51	54	51	58	56	57	56	59	57	64	61	53	48	52	49	46	42
18	40	39	44	41	48	45	51	48	55	52	57	55	57	55	60	58	64	61	54	50	53	51	46	42
19	41	39	45	42	49	47	49	46	56	52	57	55	57	56	60	58	64	61	54	51	52	50	45	42
20	40	38	45	43	49	49	53	47	57	53	57	55	59	57	59	57	64	62	56	51	52	51	45	42
21	41	40	45	43	48	47	55	48	56	53	59	55	57	56	59	57	63	60	56	53	51	50	46	44
22	41	41	44	42	48	46	57	51	56	53	59	55	57	56	59	57	61	59	56	53	51	50	46	43
23	41	40	42	40	47	47	58	53	58	54	57	55	56	55	59	57	60	58	58	54	51	50	46	42
24	45	41	44	40	49	47	57	50	55	53	57	55	58	55	58	56	59	56	59	56	50	47	46	42
25	45	43	45	41	48	47	53	47	57	53	57	55	57	56	57	56	58	56	59	56	49	46	44	44
26	45	42	45	42	49	47	50	47	59	54	56	55	57	54	58	55	60	56	60	58	49	46	45	43
27	45	42	45	43	49	47	50	47	59	55	56	55	57	56	60	57	60	57	57	53	49	46	46	43
28	45	43	45	43	50	47	51	48	59	55	56	55	57	56	61	58	60	57	-	-	48	45	45	43
29	45	41	45	43	47	47	51	49	59	55	57	55	57	56	63	59	60	57	55	53	47	45	45	43
30	44	41	45	43	47	46	51	49	58	55	57	55	57	56	64	61	60	58	56	53	49	46	45	44
31	45	42	-	-					58	54			57	56	62	59			55	52			44	41
MAX		46			58		59		61		59		64		65				56		56			
MIN		40			45		48		50		54		55		56				45		41			

-No Data.

YEAR 1985

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	43	44	41	50	47	58	54	55	54	55	54	55	54	58	58	63	62	61	60	56	55	49	49
2	45	43	43	40	47	46	60	55	55	54	55	54	55	54	58	58	63	62	61	60	56	55	49	48
3	45	43	44	41	47	43	61	56	55	53	56	55	54	54	59	58	63	62	63	61	56	56	51	49
4	46	42	44	41	48	45	62	59	55	53	57	55	55	54	60	58	64	63	63	62	56	56	51	50
5	46	44	44	41	46	44	61	57	54	53	57	55	56	55	60	59	64	63	63	62	56	54	51	50
6	46	44	44	41	44	42	62	58	55	53	57	56	57	56	60	59	64	63	62	61	55	54	51	50
7	46	45	45	43	44	41	62	58	54	53	58	56	57	56	60	60	63	61	61	60	56	55	50	50
8	47	43	45	43	45	41	62	58	54	53	57	56	56	55	61	60	61	60	60	58	56	55	50	49
9	46	44	46	42	48	43	62	58	54	53	59	56	57	55	60	60	61	60	58	55	53	49	47	
10	46	42	44	41	49	47	61	58	54	53	60	56	57	55	60	60	62	60	55	54	53	51	47	46
11	45	42	45	43	50	47	61	58	54	53	59	57	57	56	61	60	62	61	57	56	51	51	46	44
12	46	42	47	44	53	49	62	58	54	53	57	57	56	55	60	60	62	61	57	57	51	50	44	44
13	44	41	50	46	54	48	62	58	54	53	59	57	56	55	61	60	62	61	57	50	49	44	44	
14	44	41	49	46	53	48	61	58	56	54	59	57	57	56	61	61	62	61	57	57	49	48	44	44
15	46	42	49	46	53	50	61	58	54	52	60	57	57	56	61	61	62	61	58	57	50	49	45	44
16	47	45	50	47	53	51	58	55	53	52	59	58	57	56	61	61	63	61	58	57	52	50	46	45
17	47	43	51	47	53	51	57	54	55	52	58	57	57	56	62	61	63	62	58	57	52	52	46	45
18	46	43	50	48	53	51	56	54	56	53	57	57	57	56	62	61	63	62	59	58	52	50	46	46
19	45	43	51	47	55	51	56	51	56	54	57	57	57	56	62	61	63	61	59	58	50	50	46	46
20	45	43	49	46	55	53	53	50	57	55	57	57	57	56	62	61	63	61	58	57	50	49	46	45
21	45	43	50	46	53	51	50	46	57	55	58	57	56	54	62	62	63	62	57	56	49	48	46	45
22	46	44	52	48	53	49	51	46	56	55	57	57	56	54	62	62	63	62	56	55	49	48	46	46
23	45	42	52	49	53	49	55	51	57	56	57	56	57	56	62	62	63	63	56	55	50	49	46	46
24	43	42	51	48	53	51	55	53	58	57	57	55	58	57	63	62	64	63	57	56	50	50	46	46
25	44	42	52	49	51	47	54	52	57	56	56	55	59	58	64	63	64	63	58	57	50	50	46	45
26	45	44	51	48	49	44	55	52	57	55	56	55	56	58	65	63	64	62	58	57	50	50	45	45
27	45	43	52	48	45	43	54	53	56	55	56	55	59	58	65	64	63	62	58	57	50	50	45	45
28	46	44	51	48	49	41	55	55	55	53	55	54	59	58	64	64	63	62	58	57	50	50	45	45
29	46	43			51	43	55	54	53	52	55	55	59	58	64	63	63	62	58	57	49	48	45	45
30	45	42			54	48	56	54	55	53	55	54	59	58	63	62	62	61	57	56	49	48	46	45
31	44	41			56	51			56	54			59	59	63	62			57	56			47	46
MAX	47		52		56		62		58		60		60		65		64		63		56		51	
MIN	41		40		41		46		52		54		54		58		60		54		48		44	

YEAR 1986

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	47	51	50	50	49	60	46	54	53	60	58	56	55	59	59	60	59	58	56	56	55	55	55
2	48	48	51	50	50	49	58	54	53	52	60	58	56	56	60	59	60	60	57	56	55	55	55	55
3	48	48	50	48	50	49	56	53	52	51	60	59	57	56	60	59	60	60	57	56	56	55	55	55
4	49	48	48	47	50	49	56	54	51	50	59	58	58	57	59	59	60	59	-	-	56	55	55	55
5	50	49	49	47	51	50	56	55	54	51	59	58	57	56	60	59	61	60	-	-	57	55	55	55
6	50	49	49	47	51	50	57	56	53	52	58	57	57	57	60	59	62	60	59	58	56	54	54	54
7	50	48	48	46	52	50	57	56	53	51	59	57	57	57	59	59	63	61	59	58	54	54	54	54
8	48	47	48	45	54	52	56	54	57	53	59	57	57	57	60	59	62	61	59	58	54	53	53	53
9	48	47	48	45	52	49	55	54	58	54	58	57	57	57	60	59	63	61	59	58	54	53	53	53
10	48	47	48	45	51	49	58	55	56	55	58	57	59	57	60	59	62	61	59	57	54	54	54	54
11	48	47	47	46	51	50	59	57	55	54	58	57	58	58	60	59	62	60	-	-	55	54	54	54
12	47	47	47	46	51	49	60	57	55	54	57	57	58	57	60	59	61	60	57	57	55	54	54	54
13	47	46	47	45	50	49	58	54	55	53	57	57	58	57	60	59	60	59	57	56	55	54	54	54
14	46	46	52	48	50	48	55	54	54	53	57	57	58	57	60	59	60	58	57	56	54	54	54	54
15	46	46	52	51	49	47	55	54	56	53	57	56	58	57	60	59	59	58	57	56	54	54	54	54
16	49	46	51	50	52	46	54	52	56	53	56	56	58	57	59	58	58	56	57	56	54	53	53	53
17	50	49	52	51	51	49	54	52	56	54	56	56	57	57	59	58	58	56	57	56	54	53	53	53
18	50	49	53	52	51	49	55	53	57	55	56	55	57	57	60	59	56	55	56	55	54	54	54	54
19	50	50	52	50	52	50	56	54	57	56	56	55	57	56	59	59	56	55	56	55	55	54	54	54
20	50	48	50	49	52	51	58	56	57	56	55	55	57	56	59	58	58	56	57	56	55	54	54	54
21	48	47	49	49	52	51	60	58	56	55	57	55	58	57	59	58	58	57	57	56	54	53	53	53
22	48	47	50	48	52	51	62	58	55	54	56	56	58	57	59	58	58	57	57	56	54	54	54	54
23	49	47	50	49	52	51	61	57	56	54	57	56	58	57	59	58	58	57	57	56	54	54	54	54
24	49	48	50	49	53	52	57	55	56	55	56	55	57	57	59	59	57	57	57	56	54	53	53	53
25	48	47	50	49	53	52	56	54	58	56	55	55	57	57	59	59	56	56	57	56	53	52	52	52
26	48	47	50	49	53	52	56	54	58	57	55	53	57	57	59	58	56	55	58	56	53	52	52	52
27	48	47	50	49	54	53	55	53	59	57	54	52	57	57	59	58	55	54	58	57	53	52	52	52
28	48	48	50	49	55	53	55	53	59	58	55	54	57	56	60	59	56	55	58	57	52	52	52	52
29	48	48			56	55	54	53	60	58	55	54	57	56	59	59	56	56	57	56	52	52	52	52
30	50	48			58	55	54	53	60	58	55	54	57	56	59	58	57	56	56	55	52	51		
31	50	50			59	56			60	58			58	57	59	58			56	55				
MAX	50		53		59		62		60		60		59		60		63			57				
MIN	46		45		46		46		50		52		55		58		54			51				

-No Data.

YEAR 1987

Table 13b. Daily Maximum and Minimum Water Temperatures at the Red Bluff Diversion Dam, 1966-88, (Continued)

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
DAY	max min											
1					53	52	56	54	56	56	57	56
2					53	52	56	55	56	56	57	56
3					54	53	56	56	56	55	58	57
4					55	54	56	56	57	55	58	57
5					55	54	56	55	56	55	58	57
6					56	55	56	55	56	55	58	57
7					56	55	56	55	56	55	58	57
8					55	55	56	55	57	56	58	57
9					56	53	55	55	57	56	58	57
10					55	53	56	55	57	56	58	57
11					55	55	56	55	57	56	58	57
12					55	55	56	55	57	56	58	57
13					56	55	55	55	57	56	58	57
14					56	55	56	55	57	56	59	58
15					55	55	55	54	57	56	58	57
16					57	56	54	54	58	56	59	57
17					57	56	55	54	56	54	58	57
18					57	56	55	54	55	53	58	56
19					57	56	55	54	56	54	59	56
20					57	55	55	55	56	55	59	56
21					57	55	55	54	56	55	60	57
22					57	56	56	55	56	55	60	57
23					58	56	56	55	56	55	60	56
24					56	56	55	55	56	55	60	56
25					56	55	57	56	56	56	61	58
26					55	54	56	56	56	56	61	58
27					56	54	57	56	57	56	60	57
28					56	55	56	55	57	56	60	58
29					56	55	56	55	57	56	63	57
30					56	54	56	56	57	56	60	56
31					54	54			57	56	60	56
MAX									58	57	58	61
MIN									52	54	53	56
									61	63	62	62
									56	57	55	55
									57	55	55	50
									57	55	56	50
									57	55	55	50
									56	55	55	50
									56	56	56	50

YEAR 1988

Table 13b. Daily Maximum and Minimum Water Temperatures at Red Bluff Diversion Dam, 1966-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1					47	46	48	47	51	50															
2					47	46	49	47	52	50															
3					46	46	49	47	54	52															
4					47	46	48	47	53	51															
5					47	46	48	47	51	49															
6					47	46	47	46	50	49															
7					47	47	47	46	49	48															
8					47	46	47	46	50	48															
9					46	46	48	46	51	50															
10					47	46	48	47	53	51															
11					47	46	49	47	53	52															
12					47	47	50	48	54	52															
13					47	46	50	49	55	53															
14					45	45	50	49	55	53															
15					47	45	51	49	54	53															
16					48	47	52	50	54	53															
17					46	46	52	49	54	53															
18					46	46	50	49	54	53															
19					46	45	51	50	55	54															
20					46	45	51	50	54	53															
21					47	46	52	51	54	53															
22					47	46	53	51	54	54															
23					47	46	54	52	54	54															
24					48	47	53	52	55	55															
25					48	48	52	51	55	54															
26					49	48	52	51	54	53															
27					49	48	52	51	54	53															
28					50	49	52	51	54	53															
29					49	48	52	51	53	51															
30					48	47	50	49	53	52															
31							50	50																	
MAX						50		54		55															
MIN						45		46		48															

YEAR 1978

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87^{1/ 2/ 3/}

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1											11	11
2												
3												
4								14	14			12
5								14	14			12
6								14	14			11
7										14	14	
8										14	14	
9												
10												
11									15	15		
12									15	15		
13									18	18	12	12
14										12	12	10
15										12	12	
16												
17												
18												
19											11	11
20								14	14		12	11
21											11	11
22										12	12	
23												
24										12	12	
25								14	14			
26								14	14			
27								14	14		12	12
28											12	12
29											11	11
30												
31										13	13	

1/ Hand held thermometer measurements taken by Packaging Company of California.

2/ From unpublished monitoring records of the CVRWQCB.

3/ Data reported °C.

YEAR 1979

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1		11 11			15 15	17 17		19 19		17 17	12 12	
2				13 13	16 16		18 18			18 18		
3			13 13			18 18			19 19			11 11
4	10 10			13 11		17 17			18 18			10 10
5	10 10		11 11			18 18			18 18		11 11	10 10
6		11 11	11 11					19 19	18 17		11 11	
7		11 11	11 11					19 19			13 13	
8	11 11				15 15	18 18				16 16		
9	12 12			14 14	16 16	18 18				16 16		
10	11 11			14 14	16 16	17 16			16 16	16 16		10 10
11			14 14		18 18	18 17			18 17			10 10
12		11 11	11 11			18 18			18 16		12 12	8 8
13				12 12		18 18		19 19			12 12	
14								18 18			12 12	
15	11 11	11 11	12 12		17 17			18 18		16 16		
16	11 11			14 14		19 19				16 16		
17	12 12			15 15	17 17	19 19			18 17	15 15		10 10
18				17 17	18 18	19 19			18 17			10 10
19			12 12		18 18			18 17			10 10	10 10
20		11 11	12 12				18 18				11 11	
21		11 11	12 12			18 18		18 18			11 11	
22	11 11	11 11			17 17			17 16				
23	10 10			16 16	17 17	19 19						
24	10 10			16 16	17 17	19 19						
25				16 16		18 18	19 19		17 17			
26		11 11				18 18			17 17		11 11	10 10
27		11 11				18 18		18 16	17 17		11 11	9 9
28		11 11	14 13								11 11	7 7
29	10 10			12 11				17 16				
30	11 11		13 13	16 16		18 18				12 12		
31	11 11				17 17	19 19				12 12		

196

YEAR 1980

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1				12 12			16 16			17 17		10 10
2	9 9			12 12			16 16		18 18		13 14	10 10
3	8 8		10 10			15 15			18 18		10 11	
4	9 9	9 9	11 11			15 15		17 17	18 18		13 14	
5		9 9	11 11		15 15			17 17			13 14	
6		9 9		15 15				20 17		16 17		
7	9 9			13 13	15 15		18 17			15 16		
8	9 9			11 11			15 15		17 18	15 16		9 9
9	9 9			11 11		15 15	15 16		18 17		9 8	
10					15 15				17 16		12 12	8 9
11		9 9	11 11			15 15		17 16			10 10	
12	9 9	11 11			15 15			17 16			10 11	
13	9 9	11 11			15 15			17 16				
14	9 9			13 13	15 15					17 17		
15	9 9			13 13			16 16		16 15	13 13		11 11
16	9 9			13 13		16 16	16 16		16 15	13 13		10 11
17			11 11			16 16	16 16		16 15		10 11	10 11
18		9 9	11 11			16 16		17 17			11 11	
19		9 9	11 11		16 16			17 17			11 11	
20		9 9			16 16			17 17		14 15		
21	9 9			13 13	16 16		17 16			14 14		
22	9 9			13 13			17 16		16 16	14 14		10 11
23				14 14			17 17		16 15			10 10
24	9 9		11 11						16 16		11 11	
25		9 9	12 12	14 14		16 16		17 17			10 11	
26		9 9	12 12			16 16		17 17			10 10	
27		10 10				15		17 17		14 14		
28	8 8							17 17		14 13		
29	8 8			14 14	15 13		17 16		15 15	14 13		10 10
30	8 8			14 14		16 16	17 17		15 15			10 10
31			10 10						15 15			

YEAR 1981

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1				11 11		15 15	14 14		17 17			11 11
2		8 9	10 11			15 15			17 17		14 14	11 11
3		8 9	11 11			15 15		15 15	17 17		14 14	
4		9 9	10 9		14 14			15 15			14 14	
5					13 14			15 15		17 17		
6				13 13	13 14		14 14		17 17			
7	8 9			12 13			13 13		17 17			11 11
8				13 14		14 14	14 14		17 17			11 11
9		9 10	12 13			14 14			17 17		14 14	11 11
10		10 10	12 13			14 14		15 15	17 17		14 14	11 11
11		10 10	12 13		14 15			15 16		15 15		
12	8 9				14 15			15 15			14 14	
13	8 9			16 15	14 16		14 14			15 15		
14	9 10			14 15		14 14	14 14		17 17			10 10
15				15 15		15 15	14 14		17 17			11 11
16		11 12	10 11			15 15			17 17			10 10
17		10 11	11 12					15 15			14 14	
18		11 12	10 10		12 13			15 15			12 12	
19	10 10				12 12			15 15		15 15	12 12	
20	10 11				13 15		15 14			15 15		
21	11 11			14 15		15 15			17 17	15 15		10 10
22				15 16		15 15	15 15		16 16			10 10
23		11 11	12 12	15 16		14 14			16 16		12 12	11 11
24		10 10	11 12	15 16		14 14		15 15			13 13	
25	9 9	11 12				14 14		15 15			11 11	
26	8 8				14 15			15 15		14 14		
27	8 8				13 14	14 14	17 18			14 14		
28	9 10				15 16	14 14	16 18		15 15	13 13		
29					16 17	14 14	16 17		15 15			
30			11 12			14 14			15 15		11 11	
31			11 12					17 16				

168

YEAR 1982

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1		7 7	9 9			11 11			18 18		12 12	9 9
2		8 8	9 9			12 12					12 12	
3		8 8	9 9		11 11	13 13		13 13			12 12	
4					11 11					13 13		
5				8 8	11 11			13 13		13 13		
6	8 8			8 8			14 14		14 14			10 10
7	8 8			8 8		13 13	14 15		14 14			9 9
8	8 8	7 7	9 9			13 13	14 14		14 14		11 11	9 9
9		7 7	9 9			13 13		13 13			11 11	
10		7 7	9 9		11 11			13 13			11 11	
11	9 9				11 11			14 14		14 14		
12	9 9			9 9	12 12			17 18		13 13		
13	8 8			9 9			15 15		13 13	13 13		9 9
14				10 10		14 14	15 15		13 13			8 8
15		10 10	9 9			14 14			13 13		10 10	9 9
16		10 10	8 8			14 14		13 13			10 10	
17		9 9	7 7			13 13			13 13			9 9
18	7 7				12 12			13 13		12 12		
19	7 7			10 10	12 12			13 14		12 12		
20	6 6			9 10			13 14			12 12		9 9
21				10 10		15 15	14 14		13 13	12 12		9 9
22		8 8	9 9			15 15			13 13		10 10	8 8
23		9 8	9 9			14 14			14 14		10 10	
24		9 8	9 9		15 15			14 14			10 10	
25	7 7				15 15			14 14		13 13		
26	8 8			13 13	16 15		13 14			12 12		
27	7 7			10 11			13 14			13 13	11 11	
28				10 11		14 14	14 14		13 13			
29		8 8				12 12			13 13		10 10	
30		7 7				13 13			13 13		10 10	
31		8 8							13 13			

169

YEAR 1983

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1		9 9				13 13		16 16			14 14	
2		8 8			12 12	12 12		16 16			13 13	
3					12 12			16 16				
4	8 8				12 12		13 13			14 14		
5	8 8				9 9				13 13	15 15		9 9
6	7 7				10 10				14 14			10 10
7		8 8	10 10		10 10		13 13				12 12	
8		8 8	10 10				12 12				11 11	
9		9 9	10 10			13 13		14 14			11 11	
10	7 7				12 12			14 14		15 15		
11	7 7				10 10	10 10				15 15		
12	7 7				10 10				15 15			9 9
13					11 11		13 13	13 13				10 10
14			10 10			13 13					11 11	10 10
15		9 9	9 9			12 12		14 14			12 12	
16		9 9	9 9					14 14			11 11	
17	8 8	9 9						14 14				
18	8 8				11 11	15 15				13 13		
19	8 8				12 12					13 13		9 9
20					12 12		13 13	13 13				9 9
21		8 8	9 9				13 13				10 10	9 9
22		9 9	9 9				13 13				10 10	
23		9 9	9 9					14 14			10 10	
24	9 9					14 14				13 13		
25	8 8				10 10	13 13				13 13		
26	8 8				11 11				14 14	13 13		9 9
27					11 11		13 13	13 13				9 9
28		9 9	10 10				13 13				10 10	9 9
29			9 9				13 13		13 13		10 10	
30					10 10				14 14		11 11	
31	9 9					13 13			13 13		13 13	

YEAR 1984

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1					11 11	11 11		14 14		14 14		
2	8 8			11 11	10 11		14 14		15 15			
3	9 9			11 12			14 14		16 16			10 10
4	9 9			11 12		14 14	14 14		16 16			10 10
5			9 9			15 15			16 16		13 13	10 10
6			10 10			12 12					13 13	
7		8 8	10 10		12 13					16 16		
8		8 8			13 13					16 16		
9	9 9	9 9		11 11	12 13		13 13			16 16		
10	8 8			10 10			13 13		16 16			11 11
11	8 8			10 10		14 15	14 14		16 16			10 10
12			12 12			14 15			16 16		11 11	10 10
13		8 8	11 11			14 15		14 14			12 12	
14		8 8	11 11		14 14			14 14			12 12	
15		8 8			12 12			14 14		13 13		
16	7 7			13 13	12 13		14 14			12 12		
17	7 7			12 12			14 14		17 17	11 11		9 9
18	7 7			11 11		14 14	14 14		16 16			8 8
19			10 10			14 15			16 16		11 11	8 8
20		9 9	10 11			14 15		15 15			12 12	
21		8 8	9 10		14 15			15 15			10 10	
22		8 8			14 14			15 15		13 13		
23	7 7			13 13	14 15		14 14			13 13		
24	8 8			13 14			13 13		14 14	14 14		9 9
25	8 8			11 12		14 15	14 14		14 14			8 8
26			9 9			14 15			14 14		10 10	9 9
27		8 8	9 9			14 14		16 16			10 10	
28		9 9	10 10		15 15			17 17			9 9	
29		9 9			15 16			17 17		12 12		
30				11 12	15 16		14 14			13 13		
31						14 14					8 8	

YEAR 1985

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1				13 13	13 13					17 18		
2	8 8			14 14						17 17		
3	8 8			14 14						18 18		
4		7 7	8 8						17 17	18 18		10 10
5		7 7	9 9					16 16	18 18		14 14	11 11
6		7 7	7 7		12 12			18 18			13 14	11 11
7	9 9				12 12			16 16			13 13	
8	9 9			15 15	12 12			16 16		17 17		
9	9 9			15 15					16 16	17 17		9 9
10				15 15		14 14	13 13		16 16	17 17		8 8
11		7 7	9 9			14 14	13 13		16 16	13 13		11 11
12		8 8	10 10			15 15	13 13	17 17	16 16		10 10	7 7
13		9 9	10 10		13 13			17 17			10 10	
14	7 8				13 13			17 17		14 14		
15	8 8			15 15	11 11		13 13			15 15		
16	9 9						13 13		17 17	15 16		7 7
17				13 13		15 16	13 13		17 17			8 8
18		9 9	11 11	13 13		14 14			17 17		10 10	8 8
19		9 9	11 11			14 14		16 16	17 17			
20		9 9	12 12		13 13		14 14	16 16			10 10	
21	8 8				13 13			17 17		14 14		
22	9 9			10 10	13 13			17 17		14 14		
23	8 8				13 13			12 12			10 10	8 8
24				13 13		13 13	14 14		17 17	14 14		8 8
25		10 10	10 10			13 13			18 18	19 19		10 10
26		10 10	9 9			13 13		18 18			10 10	
27		9 9	7 7					18 18			10 10	
28	8 8							18 18		15 15		
29	8 8				13 13			14 14			15 15	
30	8 8				13 13			15 15			14 14	
31							14 14					

YEAR 1986

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1				14 14						14 14		11 11
2	9 9			13 13		16 16			15 15		13 13	12 12
3	9 9		10 10			16 16			16 16		13 13	12 13
4		9 9	10 10			16 16			15 15		13 13	
5		9 9	11 11		12				16 16		13 13	
6	10 10	9 9			11				15 15		13 13	
7	9 9			13 13	12				16 16		15 15	
8	9 9			12 12					16 16		15 15	
9				13 13		15 15			16 16		15 15	
10		8 8				15 15			16 16		12 12	11 11
11		8 8				15 15			16 16		12 12	11 11
12		8 8			13				16 16		12 12	
13	8 8				14				15 15		13 13	
14	8 8			13	12				15 15		13 13	
15	8 8			12					14 14		13 13	
16				12		15 15	15 15		13 13		12 12	10 10
17						15 15	15 15		13 13		12 12	10 10
18		10 10				15 15			15 15		12 12	10 10
19		10 10			15				15 15		12 12	
20	9 9		11 11		14				15 15		13 13	
21	9 9			16	13				15 15		13 13	
22	9 9			16					14 14		13 13	
23				14		15 15	15 15		14 14		13 13	
24		11 11				15 15	15 15		14 14		12 12	10 10
25		11 11				15 15	15 15		15 15		11 11	
26		12 11							14 14		11 11	
27	9 9								15 15		14 14	
28	9 9			12	16 16			14 14		14 14		
29	10 10			12	16 18			15 15		13 13		
30				12	17 17	14 14	15 15		13 13			
31				14 14		15 15			14 14			

YEAR 1987

Table 13c. Periodic Temperature Measurements above and below the Red Bluff Diversion Dam, 1978-87, (Continued)

DAY	JAN. ab/bl	FEB. ab/bl	MAR. ab/bl	APR. ab/bl	MAY ab/bl	JUN. ab/bl	JUL. ab/bl	AUG. ab/bl	SEP. ab/bl	OCT. ab/bl	NOV. ab/bl	DEC. ab/bl
1												
2		8	8	10	10							
3		8	8	10	10							
4		9	9	10	10							
5	9	9										
6	10	10										
7	9	9										
8												
9		9	9	10	10							
10		10	10	11	11							
11		9	9	10	10							
12	8	8										
13	8	8										
14	8	8										
15												
16		10	10	10	10							
17		9	9	11	11							
18	8	8	10	10	11	11						
19	8	8										
20	8	8										
21												
22												
23		9	9									
24		8	8									
25		8	8									
26	8	8										
27	9	9										
28	9	9										
29												
30												
31												

YEAR 1979

Table 13d. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1979-80^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1									57	54	54	53	57	-	60	-	62	60	55	-	54	54			
2									58	54	55	53	57	54	61	59	61	60	54	54	54	54			
3									58	55	-	54	-	54	-	-	61	59	54	54	54	53			
4									58	56	-	-	-	-	-	-	61	59	54	54	54	53			
5									56	55	-	-	57	54	63	62	60	59	55	54	54	54	52		
6									56	56	-	-	57	54	62	62	59	58	56	55	55	52	52		
7									55	54	-	-	-	-	63	61	59	58	55	55	54	52			
8									54	53	-	-	58	56	-	-	59	58	55	54	55	53			
9									54	53	54	-	58	56	63	-	59	58	55	54	54	53			
10									55	52	56	54	-	57	63	61	59	58	54	54	54	53			
11									55	53	56	54	-	57	-	-	57	57	54	54	56	53			
12									56	54	57	55	60	58	62	-	56	55	55	54	56	54			
13									55	54	57	56	61	59	61	60	57	55	56	54	56	54			
14									54	54	57	54	59	-	-	-	57	56	56	55	56	55			
15									54	53	58	54	-	-	-	-	60	57	55	54	56	55			
16									54	53	57	54	60	59	-	-	60	59	54	54	56	55			
17									53	52	57	54	60	60	-	-	59	58	53	53	56	55			
18									53	52	57	54	60	60	-	-	58	58	52	52	55	55			
19									54	53	57	54	61	60	-	-	57	57	53	52	54	54			
20									55	54	57	54	61	60	-	-	57	57	53	53	52	54			
21									54	54	56	54	61	60	-	-	57	57	53	53	52	54			
22									54	54	57	55	61	-	61	59	56	55	55	53					
23									54	53	57	55	61	60	61	59	56	55	55	55					
24									56	54	56	54	60	60	61	59	56	56	55	55					
25									57	54	-	54	-	-	61	59	56	56	54	54					
26									56	55	-	54	-	-	61	60	55	55	54	54					
27									55	54	56	53	62	-	60	60	54	54	55	54					
28									55	54	56	54	62	61	61	59	-	-	-	-	53				
29									55	54	56	53	63	62	61	59	-	-	-	-	54	53			
30									55	54	56	54	62	61	60	59	-	-	-	-	55	53			
31									-	-	-	-	-	59	-	-	-	-	-	-	-	-			
MAX														58											
MIN														52											
-No Data.																									

1/ Autolite thermograph exact location unknown.

2/ From unpublished DWR, Northern District data.

YEAR 1980

Table 13d. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1979-80, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	44	43	46	46																			
2	-	-	44	44	46	46																			
3	-	-	45	44	46	46																			
4	48	49	46	45	46	46																			
5	49	50	46	45	46	46																			
6	50	50	45	45	46	46																			
7	50	51	45	45	47	46																			
8	50	50	45	45	46	46																			
9	50	50	45	45	46	46																			
10	50	50	45	45	46	46																			
11	50	49	45	45	46	46																			
12	-	47	45	45	46	46																			
13	-	-	45	45	46	46																			
14	-	-	45	45	46	46																			
15	-	-	45	45	46	46																			
16	-	-	47	46	46	46																			
17	-	-	48	48	46	46																			
18	-	-	49	48	46	46																			
19	45	44	48	48	46	46																			
20	46	45	46	46	46	46																			
21	46	45	46	46	46	46																			
22	46	46	47	46																					
23	46	46	47	46																					
24	46	46	47	46																					
25	46	46	46	46																					
26	46	46	47	46																					
27	45	45	47	46																					
28	44	44	47	46																					
29	44	44	46	46																					
30	43	43																							
31	43	43																							
MAX																	49								
MIN																	43								
-No Data.																									

YEAR 1983

Table 13e. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1983-84^{1/ 2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
	max min												
1						57	54	57	55	58	56	57	55
2						56	54	56	54	58	56	58	56
3						56	54	57	55	58	56	58	57
4						56	54	58	56	58	56	58	57
5						57	55	58	56	58	57	57	56
6						57	55	59	57	58	57	57	56
7						56	54	58	56	58	57	56	55
8						57	54	56	55	58	56	56	54
9					51	51	57	55	56	55	60	59	56
10					52	49	57	54	57	55	60	58	57
11					53	51	56	53	58	55	58	56	57
12					53	50	56	54	58	56	61	60	57
13					53	51	56	54	58	56	61	60	57
14					53	51	56	54	58	57	61	60	57
15					53	51	56	54	58	57	61	60	57
16					55	53	57	55	58	56	61	60	56
17					56	55	58	56	58	56	60	59	56
18					59	55	58	56	57	56	58	57	56
19					59	57	57	56	56	55	58	57	56
20					57	56	57	56	57	56	59	58	57
21					58	56	57	55	58	56	58	57	56
22					58	56	57	55	58	56	58	57	56
23					58	56	57	55	58	56	57	56	54
24					58	56	57	56	58	57	58	57	54
25					58	56	57	56	58	56	58	57	52
26					57	55	57	56	58	56	58	57	54
27					57	55	57	56	58	57	58	57	54
28					57	56	57	56	58	56	57	56	55
29					57	55	56	55	58	57	56	57	55
30					57	55	57	56	58	56	56	57	56
31					57	54		58	56	58	55	58	58
MAX								58	59	58	61	59	58
MIN								53	54	55	55	52	42

^{1/} Palmer thermograph located about 100 yards below the dam on the west bank.^{2/} From unpublished DWR, Northern District data.

YEAR 1984

Table 13e. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1983-84, (Continued)

	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
DAY	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	48	48	50	50	49	48	47	48	50	49															
2	49	48	50	48	50	48	48	48	48	50															
3	49	49	48	48	50	49	49	49	48	50															
4	50	49	50	48	49	49	50	49	49	51															
5	49	49	50	49	50	48	50	49	52	51															
6	49	48	50	49	50	48	50	49	51	51															
7	48	48	50	49	-	-	50	49	52	51															
8	48	48	49	49	-	-	50	49	52	51															
9	48	48	49	49	50	49	50	48	48	53															
10	48	47	49	49	50	50	48	48	53	52															
11	48	47	49	48	51	50	48	48	52	52															
12	47	46	48	48	51	50	49	48	53	52															
13	47	47	48	47	51	50	50	49	53	52															
14	47	47	47	46	51	50	50	50	53	53															
15	48	48	46	46	50	50	52	50	53	52															
16	48	48	46	45	50	48	52	51	52	51															
17	48	48	46	46	48	46	52	51	52	51															
18	48	47	46	46	47	46	51	50	53	52															
19	47	46	46	46	48	47	51	48	53	52															
20	47	47	47	46	49	48	50	49	54	53															
21	47	47	47	47	49	49	51	50	54	53															
22	48	48	47	47	49	48	52	50	54	53															
23	49	48	47	46	48	48	53	52	54	53															
24	49	49	46	46	49	48	53	52	54	53															
25	49	49	48	46	48	48	52	51	54	53															
26	49	49	48	48	48	48	51	49	54	53															
27	50	49	49	48	49	48	50	49	55	54															
28	50	50	49	48	48	47	50	49	55	54															
29	50	50	49	48	48	48	50	50	55	54															
30	50	50			48	47	50	50	55																
31	50	50			47	47																			
MAX		50		50			53		55																
MIN		46		45			47		48																

-No data.

YEAR 1986

Table 13f. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1986-88^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1					55	53	62	58	58	55	58	56	59	57	57	55	56	55	56	55	52	50			
2					52	51	62	59	58	55	58	56	60	58	56	55	56	55	56	55	52	50			
3					52	49	61	58	59	56	58	56	60	58	56	55	56	55	56	55	53	51			
4					51	49	60	58	59	56	58	57	61	58	57	55	56	55	56	54	52	51			
5					52	51	59	57	58	56	58	57	61	58	58	56	55	56	55	54	52	51			
6					52	50	59	57	58	56	58	56	62	59	59	56	54	53	53	52					
7					54	50	60	57	58	56	58	56	62	60	58	56	53	52	52	51					
8					56	52	59	56	58	56	58	56	61	60	58	56	53	52	51	50					
9					57	54	60	56	59	56	58	56	61	59	58	56	53	52	52	50					
10					57	54	60	56	59	57	58	56	61	59	58	56	53	52	51	50					
11					56	54	59	56	60	57	58	57	60	59	58	56	54	52	50	49					
12					57	54	59	56	60	57	58	57	50	59	56	55	54	53	50	49					
13					56	53	58	56	60	57	58	57	59	58	56	55	54	53	49	49					
14					53	53	58	56	60	57	58	57	58	57	56	54	53	52	51	49					
15					54	53	58	56	59	57	58	56	58	56	56	54	53	52	50						
16					56	54	57	55	58	55	58	56	56	55	56	54	53	52	51	50					
17					53	51	59	55	57	56	57	55	58	56	56	55	55	53	52	51	49				
18					56	52	60	56	57	55	57	55	58	56	56	54	55	54	52	51	50				
19					58	54	60	56	56	54	56	55	58	56	55	54	55	54	52	50	49				
20					60	56	58	55	56	54	56	55	58	56	57	55	56	55	53	52	50	48			
21					62	58	57	54	57	55	57	56	57	56	58	56	56	55	52	51	49	48			
22					61	59	57	54	58	56	58	56	57	55	58	56	56	55	53	51	48	48			
23					60	56	58	54	58	56	57	56	57	55	58	56	55	53	51	49	47				
24					57	54	58	55	58	56	56	56	57	55	56	56	55	54	52	51	48	47			
25					55	54	60	56	58	56	58	56	58	55	57	55	56	55	52	51	47	47			
26					55	53	61	57	58	53	56	56	57	55	55	54	57	55	52	51	49	47			
27					56	53	61	57	56	53	57	56	57	55	55	54	57	56	52	51	—	—			
28					55	52	61	57	57	55	56	55	58	56	56	54	57	56	51	51	—	—			
29					56	52	62	58	57	55	57	56	59	57	57	55	57	56	52	51	—	—			
30					56	52	62	58	57	55	57	56	59	57	58	56	56	55	52	51	—	—			
31							61	58			58	56	59	57			56	55							
MAX							62		62		60		59		62		59		56						
MIN							49		53		55		55		54		54		51						

-No Data.

1/ Palmer thermograph located about 100 yards below the dam on the west bank.

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 13f. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1986-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	-	-	48	47	51	49	58	54	51	50	55	53	55	55	58	57	60	58	62	60	55	54	51	49	
2	-	-	47	47	51	50	58	55	52	50	56	54	55	55	58	57	60	58	62	60	55	54	53	51	
3	-	-	48	47	51	50	57	54	52	50	56	54	55	55	58	57	60	58	62	60	56	54	54	53	
4	-	-	50	47	51	50	56	52	53	52	56	54	55	55	58	58	60	58	62	60	56	54	54	53	
5	-	-	50	48	52	51	56	52	54	52	55	54	55	54	58	57	58	56	62	60	56	55	54	54	
6	-	-	50	48	52	51	55	52	54	53	55	53	55	54	58	58	58	56	62	60	56	55	53	51	
7	-	-	51	48	52	50	55	52	54	53	55	53	56	55	58	58	58	56	61	60	56	55	51	50	
8	-	-	50	49	50	49	56	52	54	53	55	53	56	55	59	57	58	56	61	59	56	55	50	49	
9	-	-	50	49	50	48	49	57	54	54	51	55	54	56	55	58	57	58	56	60	59	56	55	51	49
10	-	-	50	49	50	49	56	54	53	51	55	54	57	56	59	57	59	56	59	58	56	55	53	51	
11	-	-	51	50	50	49	54	52	54	53	55	54	57	56	59	57	60	57	59	57	55	54	52	47	
12	-	-	50	50	50	49	53	51	53	51	55	54	58	57	59	57	60	57	59	58	55	54	47	45	
13	-	-	52	50	50	49	54	51	54	54	55	54	58	57	59	58	60	58	59	58	55	54	45	44	
14	-	-	51	48	50	49	54	52	54	54	55	54	58	57	59	58	61	58	58	57	55	53	45	43	
15	-	-	50	48	50	48	55	52	54	54	54	53	58	57	60	58	62	59	58	56	54	52	45	44	
16	-	-	50	49	51	49	55	53	56	54	54	53	58	57	60	58	61	59	57	56	53	52	46	44	
17	-	-	50	48	52	49	53	51	56	55	54	53	57	54	60	58	61	59	57	56	53	52	46	44	
18	-	-	51	49	52	49	50	49	56	54	54	53	56	53	60	58	61	59	57	56	54	53	47	46	
19	-	-	51	49	51	49	51	49	56	53	54	53	56	55	60	59	62	60	56	55	54	53	47	45	
20	-	-	51	48	49	47	52	50	55	53	54	54	56	55	60	59	62	60	56	55	54	52	47	45	
21	48	45	50	48	48	46	53	51	56	53	54	54	56	55	60	59	62	60	56	55	53	52	47	46	
22	47	46	50	48	48	45	51	50	56	53	54	54	56	55	60	59	62	61	56	55	53	52	49	47	
23	47	46	50	47	51	47	52	50	56	53	55	54	56	56	61	59	62	61	56	55	53	52	47	45	
24	47	47	49	47	51	49	52	51	55	53	56	54	57	56	61	59	62	61	57	55	53	51	45	43	
25	47	45	48	46	54	49	53	51	55	53	56	55	57	56	62	59	62	59	57	55	52	51	44	43	
26	48	45	49	46	55	51	53	52	54	52	56	55	58	56	61	60	62	60	58	56	51	50	44	43	
27	48	48	50	46	54	52	53	52	55	53	56	55	57	56	61	59	62	60	57	56	51	50	44	43	
28	48	48	50	48	55	52	52	51	55	53	55	55	58	57	60	58	62	60	58	57	51	50	43	42	
29	48	47			55	51	52	51	55	53	55	55	58	57	61	58	62	60	57	56	50	49	43	41	
30	49	48			56	53	52	51	55	53	55	55	58	57	61	58	62	60	56	55	50	49	42	41	
31	48	47				58	53			54	52			58	57	61	59			56	55			43	41
MAX			51		58		58		56		56		58		62		63		62		56		54		
MIN			46		45		49		50		53		53		57		56		55		49		41		

-No Data.

YEAR 1988

Table 13f. Daily Maximum and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1986-88, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	43	41	46	44	50	50	52	50	52	50	54	53													
2	43	42	46	44	52	50	52	50	54	51	56	53													
3	43	40	46	43	52	50	51	50	54	51	58	55													
4	43	40	46	44	51	50	51	50	53	51	56	54													
5	45	43	46	44	52	50	51	50	52	51	54	52													
6	46	45	47	44	54	51	52	50	51	50	54	52													
7	46	45	47	44	54	51	-	51	50	49	52	51													
8	45	44	49	46	53	50	50	50	52	49	53	51													
9	46	45	50	47	53	50	50	50	53	51	55	53													
10	47	46	51	48	51	49	51	50	54	52	56	54													
11	46	45	51	49	50	48	52	51	54	53	57	55													
12	46	44	51	49	50	48	52	51	54	54	58	55													
13	46	45	50	48	50	47	51	49	55	54	59	56													
14	47	46	50	48	51	48	49	49	56	54	60	57													
15	47	46	51	48	51	49	51	49	57	55	59	57													
16	46	45	50	48	51	49	51	50	56	54	58	57													
17	46	45	49	47	51	49	50	50	55	53	58	57													
18	45	43	48	47	52	49	50	50	57	54	58	57													
19	45	43	49	47	52	49	50	49	58	55	59	57													
20	45	43	50	48	52	50	50	49	58	56	59	57													
21	46	44	51	49	53	51	52	50	59	56	58	57													
22	47	45	51	50	53	51	51	49	59	56	58	57													
23	48	46	51	50	53	51	52	49	58	55	58	57													
24	49	46	51	49	52	51	53	51	58	56	59	57													
25	48	46	51	50	53	50	53	52	58	56															
26	47	45	50	50	53	51	54	52	58	56															
27	48	46	51	50	51	49	54	53	57	56															
28	48	47	51	50	50	49	54	53	55	53															
29	48	47	51	50	51	49	53	52	53	52															
30	47	45			51	49	52	51	54	53															
31	46	44			51	49			54	53															
MAX		49			51		54			59															
MIN		40			43		47			49															

-No Data.

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	18	1987	16.0	60.8	17.0	62.6	15.5	59.9
9	19	1987	16.5	61.7	17.0	62.6	16.0	60.8
9	20	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	21	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	22	1987	17.0	62.6	17.5	63.5	16.0	60.8
9	23	1987	17.0	62.6	18.0	64.4	16.5	61.7
9	24	1987	17.0	62.6	17.5	63.5	16.5	61.7
9	25	1987	17.0	62.6	17.5	63.5	16.5	61.7
9	26	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	27	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	28	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	29	1987	16.5	61.7	17.5	63.5	16.0	60.8
9	30	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	1	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	2	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	3	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	4	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	5	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	6	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	7	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	8	1987	16.0	60.8	17.0	62.6	15.5	59.9
10	9	1987	16.0	60.8	16.5	61.7	16.0	60.8
10	10	1987	16.0	60.8	16.5	61.7	15.5	59.9
10	11	1987	15.5	59.9	16.0	60.8	15.0	59.0
10	12	1987	15.0	59.0	15.5	59.9	14.5	58.1
10	13	1987	15.0	59.0	16.0	60.8	15.0	59.0
10	14	1987	15.0	59.0	16.0	60.8	15.0	59.0
10	15	1987	15.0	59.0	15.5	59.9	14.5	58.1
10	16	1987	14.5	58.1	15.0	59.0	14.5	58.1
10	17	1987	14.5	58.1	15.0	59.0	14.0	57.2
10	18	1987	14.5	58.1	15.0	59.0	14.0	57.2
10	19	1987	14.0	57.2	14.5	58.1	14.0	57.2
10	20	1987	14.0	57.2	14.5	58.1	13.5	56.3
10	21	1987	14.0	57.2	14.5	58.1	13.5	56.3
10	22	1987	13.5	56.3	14.5	58.1	13.5	56.3
10	23	1987	14.0	57.2	14.5	58.1	14.0	57.2
10	24	1987	14.0	57.2	14.5	58.1	14.0	57.2
10	25	1987	14.0	57.2	14.5	58.1	14.0	57.2
10	26	1987	14.0	57.2	15.0	59.0	14.0	57.2
10	27	1987	14.5	58.1	15.0	59.0	14.5	58.1
10	28	1987	14.5	58.1	15.0	59.0	14.5	58.1
10	29	1987	14.5	58.1	15.0	59.0	14.5	58.1
10	30	1987	14.0	57.2	14.5	58.1	14.0	57.2
10	31	1987	13.5	56.3	14.0	57.2	13.5	56.3

1/ Omnidata DP112 thermograph located about 50 meters below the dam on the west bank.

2/ Unpublished data collected by DWR, Northern District.

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	1	1987	14.0	57.2	14.5	58.1	14.0	57.2
11	2	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	3	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	4	1987	13.0	55.4	14.0	57.2	13.0	55.4
11	5	1987	13.5	56.3	14.0	57.2	13.0	55.4
11	6	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	7	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	8	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	9	1987	13.5	56.3	14.0	57.2	13.0	55.4
11	10	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	11	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	12	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	13	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	15	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1987	12.0	53.6	13.0	55.4	12.0	53.6
11	17	1987	12.0	53.6	12.5	54.5	12.0	53.6
11	18	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	19	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	20	1987	12.5	54.5	13.5	56.3	12.5	54.5
11	21	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	22	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	23	1987	12.0	53.6	12.5	54.5	12.0	53.6
11	24	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	25	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	26	1987	11.5	52.7	12.0	53.6	11.5	52.7
11	27	1987	10.5	50.9	11.5	52.7	10.5	50.9
11	28	1987	10.5	50.9	11.5	52.7	10.5	50.9
11	29	1987	11.0	51.8	11.5	52.7	11.0	51.8
11	30	1987	11.0	51.8	11.0	51.8	11.0	51.8
12	1	1987	11.0	51.8	11.0	51.8	11.0	51.8
12	2	1987	11.0	51.8	12.0	53.6	11.0	51.8
12	3	1987	12.0	53.6	12.5	54.5	11.5	52.7
12	4	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	5	1987	13.0	55.4	13.0	55.4	13.0	55.4
12	6	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	7	1987	12.0	53.6	12.5	54.5	11.5	52.7
12	8	1987	11.0	51.8	11.5	52.7	10.5	50.9
12	9	1987	10.0	50.0	10.5	50.9	10.0	50.0
12	10	1987	10.5	50.9	11.0	51.8	10.5	50.9
12	11	1987	11.5	52.7	12.5	54.5	11.0	51.8
12	12	1987	10.5	50.9	12.0	53.6	9.0	48.2
12	13	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	14	1987	7.5	45.5	8.0	46.4	7.5	45.5
12	15	1987	7.5	45.5	8.0	46.4	7.0	44.6
12	16	1987	8.0	46.4	8.5	47.3	8.0	46.4

**Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below
the Red Bluff Diversion Dam, 1987-1989, (Continued)**

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	17	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	18	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	19	1987	8.5	47.3	9.5	49.1	8.5	47.3
12	20	1987	8.5	47.3	9.5	49.1	8.5	47.3
12	21	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	22	1987	9.0	48.2	9.5	49.1	9.0	48.2
12	23	1987	9.5	49.1	10.5	50.9	9.5	49.1
12	24	1987	8.5	47.3	9.5	49.1	8.0	46.4
12	25	1987	7.0	44.6	8.0	46.4	6.5	43.7
12	26	1987	7.0	44.6	8.0	46.4	6.5	43.7
12	27	1987	7.0	44.6	8.0	46.4	6.5	43.7
12	28	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	29	1987	6.5	43.7	7.0	44.6	6.5	43.7
12	30	1987	6.5	43.7	7.0	44.6	6.0	42.8
12	31	1987	6.0	42.8	6.5	43.7	6.0	42.8

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1988	6.0	42.8	7.0	44.6	6.0	42.8
1	2	1988	6.5	43.7	7.5	45.5	6.0	42.8
1	3	1988	7.0	44.6	7.5	45.5	6.5	43.7
1	4	1988	6.0	42.8	7.5	45.5	5.5	41.9
1	5	1988	6.0	42.8	7.0	44.6	5.5	41.9
1	6	1988	7.5	45.5	8.5	47.3	7.0	44.6
1	7	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	8	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	9	1988	8.0	46.4	8.0	46.4	8.0	46.4
1	10	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	11	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	12	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	13	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	14	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	15	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	16	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	17	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	18	1988	8.0	46.4	8.5	47.3	7.0	44.6
1	19	1988	7.0	44.6	8.0	46.4	7.0	44.6
1	20	1988	7.0	44.6	8.0	46.4	7.0	44.6
1	21	1988	7.5	45.5	8.5	47.3	7.0	44.6
1	22	1988	7.5	45.5	8.5	47.3	7.0	44.6
1	23	1988	8.0	46.4	9.0	48.2	7.5	45.5
1	24	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	25	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	26	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	27	1988	8.5	47.3	9.5	49.1	8.0	46.4
1	28	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	29	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	30	1988	9.5	49.1	10.0	50.0	9.0	48.2
1	31	1988	8.5	47.3	9.5	49.1	8.5	47.3
2	1	1988	8.0	46.4	9.0	48.2	8.0	46.4
2	2	1988	8.0	46.4	9.5	49.1	8.0	46.4
2	3	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	4	1988	7.5	45.5	8.5	47.3	7.0	44.6
2	5	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	6	1988	8.0	46.4	9.0	48.2	7.0	44.6
2	7	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	8	1988	8.5	47.3	9.5	49.1	8.0	46.4
2	9	1988	9.5	49.1	10.5	50.9	8.5	47.3
2	10	1988	10.0	50.0	11.0	51.8	9.5	49.1
2	11	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	12	1988	10.5	50.9	12.0	53.6	10.5	50.9
2	13	1988	10.5	50.9	12.0	53.6	10.5	50.9
2	14	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	15	1988	10.0	50.0	11.0	51.8	9.5	49.1

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	16	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	17	1988	10.0	50.0	11.0	51.8	10.0	50.0
2	18	1988	9.5	49.1	10.0	50.0	9.0	48.2
2	19	1988	9.5	49.1	10.0	50.0	9.0	48.2
2	20	1988	9.5	49.1	10.0	50.0	9.5	49.1
2	21	1988	10.0	50.0	11.0	51.8	9.5	49.1
2	22	1988	10.5	50.9	11.5	52.7	10.5	50.9
2	23	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	24	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	25	1988	11.0	51.8	11.5	52.7	11.0	51.8
2	26	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	27	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	28	1988	11.5	52.7	12.0	53.6	11.0	51.8
3	1	1988	11.5	52.7	12.0	53.6	11.0	51.8
3	2	1988	11.5	52.7	12.0	53.6	11.5	52.7
3	3	1988	11.0	51.8	11.5	52.7	11.0	51.8
3	4	1988	11.5	52.7	12.0	53.6	11.0	51.8
3	5	1988	11.5	52.7	12.0	53.6	11.0	51.8
3	6	1988	11.5	52.7	12.0	53.6	11.0	51.8
3	7	1988	11.5	52.7	12.5	54.5	11.0	51.8
3	8	1988	12.0	53.6	13.0	55.4	11.5	52.7
3	9	1988	12.0	53.6	13.0	55.4	11.5	52.7
3	10	1988	12.0	53.6	13.0	55.4	11.0	51.8
3	11	1988	11.5	52.7	13.0	55.4	11.0	51.8
3	12	1988	10.5	50.9	11.5	52.7	10.5	50.9
3	13	1988	10.0	50.0	11.0	51.8	9.5	49.1
3	14	1988	10.5	50.9	11.0	51.8	10.0	50.0
3	15	1988	10.5	50.9	11.5	52.7	10.0	50.0
3	16	1988	10.5	50.9	12.0	53.6	10.0	50.0
3	17	1988	11.0	51.8	12.0	53.6	10.5	50.9
3	18	1988	11.0	51.8	12.0	53.6	10.0	50.0
4	16	1988	11.0	51.8	12.0	53.6	10.5	50.9
4	17	1988	11.5	52.7	12.0	53.6	11.0	51.8
4	18	1988	11.0	51.8	11.5	52.7	11.0	51.8
4	19	1988	11.0	51.8	11.5	52.7	11.0	51.8
4	20	1988	10.5	50.9	11.0	51.8	10.5	50.9
4	21	1988	10.5	50.9	11.5	52.7	10.5	50.9
4	22	1988	11.5	52.7	12.0	53.6	11.5	52.7
4	23	1988	11.5	52.7	12.0	53.6	11.0	51.8
4	24	1988	11.5	52.7	12.5	54.5	11.0	51.8
4	25	1988	12.5	54.5	13.0	55.4	12.0	53.6
4	26	1988	12.0	53.6	13.0	55.4	12.0	53.6
4	27	1988	12.5	54.5	13.0	55.4	12.0	53.6
4	28	1988	13.0	55.4	13.5	56.3	12.5	54.5
4	29	1988	13.0	55.4	13.5	56.3	12.5	54.5
4	30	1988	12.5	54.5	13.0	55.4	12.0	53.6

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
5	1	1988	12.0	53.6	12.5	54.5	11.5	52.7
5	2	1988	12.0	53.6	12.5	54.5	11.5	52.7
5	3	1988	12.5	54.5	14.0	57.2	12.0	53.6
5	4	1988	12.0	53.6	13.0	55.4	11.5	52.7
5	5	1988	12.0	53.6	12.5	54.5	11.5	52.7
5	6	1988	11.5	52.7	12.5	54.5	11.5	52.7
5	7	1988	11.5	52.7	12.5	54.5	11.0	51.8
5	8	1988	10.5	50.9	11.0	51.8	10.5	50.9
5	9	1988	11.5	52.7	12.5	54.5	11.0	51.8
5	10	1988	12.0	53.6	12.5	54.5	11.5	52.7
5	11	1988	12.5	54.5	13.0	55.4	12.0	53.6
5	12	1988	13.0	55.4	13.5	56.3	13.0	55.4
5	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
5	14	1988	13.0	55.4	13.5	56.3	13.0	55.4
5	15	1988	13.5	56.3	14.0	57.2	13.0	55.4
5	16	1988	14.0	57.2	15.0	59.0	13.5	56.3
5	17	1988	13.5	56.3	14.0	57.2	12.5	54.5
5	18	1988	13.0	55.4	14.0	57.2	12.5	54.5
5	19	1988	13.5	56.3	14.5	58.1	13.5	56.3
5	20	1988	14.0	57.2	15.0	59.0	13.5	56.3
5	21	1988	14.5	58.1	15.5	59.9	14.0	57.2
5	22	1988	14.5	58.1	16.0	60.8	14.0	57.2
5	23	1988	14.5	58.1	15.5	59.9	14.0	57.2
5	24	1988	14.5	58.1	15.5	59.9	14.0	57.2
5	25	1988	14.5	58.1	15.5	59.9	14.0	57.2
5	26	1988	14.5	58.1	15.5	59.9	14.0	57.2
5	27	1988	14.5	58.1	15.5	59.9	14.5	58.1
5	28	1988	14.5	58.1	15.0	59.0	14.5	58.1
5	29	1988	14.0	57.2	15.0	59.0	13.0	55.4
5	30	1988	13.0	55.4	13.5	56.3	13.0	55.4
5	31	1988	13.0	55.4	14.0	57.2	13.0	55.4
6	1	1988	13.0	55.4	14.0	57.2	13.0	55.4
6	2	1988	13.0	55.4	14.0	57.2	13.0	55.4
6	3	1988	13.5	56.3	14.5	58.1	13.0	55.4
6	4	1988	15.0	59.0	16.0	60.8	14.5	58.1
6	5	1988	14.5	58.1	15.0	59.0	14.0	57.2
6	6	1988	13.5	56.3	14.5	58.1	13.0	55.4
6	7	1988	13.0	55.4	14.0	57.2	13.0	55.4
6	8	1988	12.5	54.5	13.5	56.3	12.0	53.6
6	9	1988	12.5	54.5	13.5	56.3	12.0	53.6
6	10	1988	13.5	56.3	14.5	58.1	13.0	55.4
6	11	1988	14.0	57.2	15.0	59.0	13.5	56.3
6	12	1988	15.0	59.0	15.5	59.9	14.0	57.2
6	13	1988	15.0	59.0	16.0	60.8	14.5	58.1
6	14	1988	15.5	59.9	16.5	61.7	15.0	59.0
6	15	1988	15.5	59.9	16.5	61.7	15.0	59.0

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
6	16	1988	15.5	59.9	16.5	61.7	15.0	59.0
6	17	1988	15.5	59.9	16.0	60.8	15.0	59.0
6	18	1988	15.5	59.9	16.5	61.7	15.0	59.0
6	19	1988	15.5	59.9	16.0	60.8	15.5	59.9
6	20	1988	16.0	60.8	17.0	62.6	15.5	59.9
9	22	1988	16.0	60.8	17.0	62.6	16.0	60.8
9	23	1988	16.5	61.7	17.5	63.5	16.0	60.8
9	24	1988	16.5	61.7	17.5	63.5	16.0	60.8
9	25	1988	16.0	60.8	17.0	62.6	16.0	60.8
9	26	1988	16.0	60.8	17.0	62.6	16.0	60.8
9	27	1988	16.5	61.7	17.0	62.6	16.0	60.8
9	28	1988	16.5	61.7	17.0	62.6	16.0	60.8
9	29	1988	16.5	61.7	17.5	63.5	16.0	60.8
9	30	1988	16.5	61.7	17.5	63.5	16.5	61.7
10	1	1988	16.5	61.7	17.5	63.5	16.5	61.7
10	2	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	3	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	4	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	5	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	6	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	7	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	8	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	9	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	10	1988	16.0	60.8	17.0	62.6	15.5	59.9
10	11	1988	16.0	60.8	16.5	61.7	15.5	59.9
10	12	1988	16.0	60.8	16.5	61.7	15.5	59.9
10	13	1988	15.5	59.9	16.0	60.8	15.0	59.0
10	14	1988	15.0	59.0	15.5	59.9	14.5	58.1
10	15	1988	15.5	59.9	16.0	60.8	15.0	59.0
10	16	1988	16.0	60.8	16.5	61.7	15.5	59.9
10	17	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	18	1988	16.0	60.8	16.5	61.7	15.5	59.9
10	19	1988	15.5	59.9	16.0	60.8	15.5	59.9
10	20	1988	15.5	59.9	16.0	60.8	15.0	59.0
10	21	1988	15.0	59.0	15.5	59.9	15.0	59.0
10	22	1988	15.0	59.0	15.5	59.9	14.5	58.1
10	23	1988	14.5	58.1	15.0	59.0	14.5	58.1
10	24	1988	14.5	58.1	15.0	59.0	14.0	57.2
10	25	1988	14.5	58.1	15.0	59.0	14.0	57.2
10	26	1988	14.5	58.1	15.0	59.0	14.5	58.1
10	27	1988	14.0	57.2	14.5	58.1	14.0	57.2
10	28	1988	14.0	57.2	14.5	58.1	14.0	57.2
10	29	1988	13.5	56.3	14.0	57.2	13.5	56.3
10	30	1988	13.5	56.3	14.0	57.2	13.5	56.3
10	31	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	1	1988	13.5	56.3	14.5	58.1	13.5	56.3

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	2	1988	14.0	57.2	14.0	57.2	14.0	57.2
11	3	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	4	1988	14.0	57.2	14.5	58.1	14.0	57.2
11	5	1988	14.0	57.2	14.5	58.1	14.0	57.2
11	6	1988	13.5	56.3	14.5	58.1	13.5	56.3
11	7	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	9	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	10	1988	12.5	54.5	13.0	55.4	12.0	53.6
11	11	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	12	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	15	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	16	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	17	1988	12.0	53.6	13.0	55.4	12.0	53.6
11	18	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	19	1988	12.5	54.5	13.0	55.4	12.0	53.6
11	20	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	21	1988	12.5	54.5	13.0	55.4	11.5	52.7
11	22	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	23	1988	11.0	51.8	11.5	52.7	10.5	50.9
11	24	1988	10.0	50.0	11.0	51.8	10.0	50.0
11	25	1988	10.0	50.0	10.5	50.9	9.5	49.1
11	26	1988	11.0	51.8	11.5	52.7	10.5	50.9
11	27	1988	11.0	51.8	12.0	53.6	10.5	50.9
11	28	1988	11.5	52.7	12.0	53.6	11.0	51.8
11	29	1988	11.5	52.7	12.0	53.6	11.0	51.8
11	30	1988	11.5	52.7	12.0	53.6	11.0	51.8
12	1	1988	11.0	51.8	12.0	53.6	11.0	51.8
12	2	1988	11.0	51.8	12.0	53.6	11.0	51.8
12	3	1988	11.5	52.7	12.5	54.5	11.0	51.8
12	4	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	5	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	6	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	7	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	8	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	9	1988	12.0	53.6	13.0	55.4	12.0	53.6
12	10	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	11	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	12	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	13	1988	11.5	52.7	12.0	53.6	10.5	50.9
12	14	1988	10.0	50.0	11.0	51.8	10.0	50.0
12	15	1988	10.0	50.0	11.0	51.8	10.0	50.0
12	16	1988	10.5	50.9	11.5	52.7	10.0	50.0
12	17	1988	10.5	50.9	11.0	51.8	10.0	50.0

**Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below
the Red Bluff Diversion Dam, 1987-1989, (Continued)**

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	18	1988	10.5	50.9	11.5	52.7	10.5	50.9
12	19	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	20	1988	9.5	49.1	10.5	50.9	9.5	49.1
12	21	1988	9.5	49.1	10.0	50.0	9.0	48.2
12	22	1988	8.5	47.3	9.0	48.2	8.5	47.3
12	23	1988	8.0	46.4	9.0	48.2	7.5	45.5
12	24	1988	7.5	45.5	8.5	47.3	7.5	45.5
12	25	1988	7.5	45.5	8.0	46.4	7.5	45.5
12	26	1988	7.0	44.6	7.5	45.5	7.0	44.6
12	27	1988	7.0	44.6	8.0	46.4	7.0	44.6
12	28	1988	7.5	45.5	8.0	46.4	7.5	45.5
12	29	1988	7.5	45.5	8.0	46.4	7.5	45.5
12	30	1988	7.0	44.6	7.5	45.5	7.0	44.6
12	31	1988	7.0	44.6	8.0	46.4	7.0	44.6

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	2	1989	8.0	46.4	9.0	48.2	8.0	46.4
1	3	1989	8.0	46.4	8.5	47.3	8.0	46.4
1	4	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	5	1989	6.0	42.8	7.0	44.6	6.0	42.8
1	6	1989	6.5	43.7	7.5	45.5	6.5	43.7
1	7	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	8	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	9	1989	7.0	44.6	8.0	46.4	6.5	43.7
1	10	1989	6.5	43.7	7.5	45.5	6.5	43.7
1	11	1989	6.5	43.7	7.5	45.5	6.5	43.7
1	12	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	13	1989	7.0	44.6	7.5	45.5	6.5	43.7
1	14	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	15	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	16	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	17	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	18	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	19	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	20	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	21	1989	9.0	48.2	9.5	49.1	9.0	48.2
1	22	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	23	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	24	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	26	1989	8.0	46.4	9.0	48.2	-	-
1	27	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	28	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	29	1989	8.5	47.3	10.0	50.0	8.0	46.4
1	30	1989	9.5	49.1	10.5	50.9	9.0	48.2
1	31	1989	9.5	49.1	10.5	50.9	9.5	49.1
2	1	1989	9.5	49.1	10.5	50.9	9.0	48.2
2	2	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	3	1989	7.5	45.5	8.5	47.3	7.0	44.6
2	4	1989	7.0	44.6	8.0	46.4	6.5	43.7
2	5	1989	5.5	41.9	6.5	43.7	5.0	41.0
2	6	1989	4.5	40.1	5.5	41.9	4.5	40.1
2	7	1989	5.0	41.0	6.0	42.8	5.0	41.0
2	8	1989	5.5	41.9	7.0	44.6	5.5	41.9
2	9	1989	6.5	43.7	7.5	45.5	6.5	43.7
2	10	1989	7.0	44.6	7.5	45.5	7.0	44.6
2	11	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	12	1989	8.0	46.4	9.0	48.2	8.0	46.4
2	13	1989	8.0	46.4	9.0	48.2	8.0	46.4
2	14	1989	8.0	46.4	9.0	48.2	8.0	46.4
2	15	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	16	1989	8.5	47.3	10.0	50.0	8.0	46.4

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	17	1989	9.5	49.1	10.5	50.9	9.5	49.1
2	18	1989	9.5	49.1	10.0	50.0	9.5	49.1
2	19	1989	9.5	49.1	10.0	50.0	9.0	48.2
2	20	1989	9.5	49.1	11.0	51.8	9.5	49.1
2	21	1989	10.0	50.0	11.0	51.8	10.0	50.0
2	22	1989	10.0	50.0	11.5	52.7	9.5	49.1
2	23	1989	9.5	49.1	10.5	50.9	9.5	49.1
2	24	1989	9.5	49.1	10.5	50.9	9.0	48.2
2	25	1989	9.0	48.2	10.0	50.0	9.0	48.2
2	26	1989	9.5	49.1	10.5	50.9	9.5	49.1
2	27	1989	9.5	49.1	10.5	50.9	9.0	48.2
2	28	1989	9.0	48.2	10.0	50.0	9.0	48.2
3	1	1989	8.5	47.3	9.5	49.1	8.5	47.3
3	2	1989	8.5	47.3	9.0	48.2	8.5	47.3
3	3	1989	8.5	47.3	9.0	48.2	8.0	46.4
3	4	1989	8.0	46.4	8.5	47.3	7.5	45.5
3	5	1989	7.5	45.5	8.0	46.4	7.5	45.5
3	6	1989	8.5	47.3	10.0	50.0	8.0	46.4
3	7	1989	10.5	50.9	11.5	52.7	9.5	49.1
3	8	1989	11.0	51.8	11.5	52.7	11.0	51.8
3	9	1989	11.5	52.7	12.0	53.6	11.0	51.8
3	10	1989	11.0	51.8	12.0	53.6	11.0	51.8
3	11	1989	12.0	53.6	12.5	54.5	12.0	53.6
3	12	1989	11.5	52.7	12.5	54.5	11.0	51.8
3	13	1989	11.0	51.8	12.0	53.6	10.5	50.9
3	14	1989	11.0	51.8	12.0	53.6	10.0	50.0
3	15	1989	11.0	51.8	12.0	53.6	11.0	51.8
3	16	1989	11.0	51.8	11.5	52.7	11.0	51.8
3	17	1989	10.0	50.0	11.0	51.8	10.0	50.0
3	18	1989	10.0	50.0	11.5	52.7	10.0	50.0
3	19	1989	12.0	53.6	12.5	54.5	11.5	52.7
3	20	1989	12.0	53.6	13.0	55.4	12.0	53.6
3	21	1989	12.5	54.5	13.5	56.3	12.5	54.5
3	22	1989	12.5	54.5	13.0	55.4	12.5	54.5
3	23	1989	12.5	54.5	12.5	54.5	12.5	54.5
3	24	1989	12.0	53.6	12.5	54.5	12.0	53.6
3	25	1989	11.5	52.7	12.0	53.6	11.0	51.8
3	26	1989	11.0	51.8	11.5	52.7	10.5	50.9
3	27	1989	11.0	51.8	11.5	52.7	11.0	51.8
3	28	1989	11.5	52.7	12.0	53.6	11.0	51.8
3	29	1989	11.5	52.7	12.5	54.5	11.5	52.7
3	30	1989	12.0	53.6	12.5	54.5	11.5	52.7
3	31	1989	12.5	54.5	13.0	55.4	12.0	53.6
4	1	1989	11.5	52.7	12.5	54.5	11.5	52.7
4	2	1989	11.5	52.7	12.0	53.6	11.5	52.7
4	3	1989	12.5	54.5	13.0	55.4	12.0	53.6

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
4	4	1989	13.5	56.3	14.5	58.1	13.0	55.4
4	5	1989	14.5	58.1	15.5	59.9	14.0	57.2
4	6	1989	15.5	59.9	16.0	60.8	15.0	59.0
4	7	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	9	1989	16.0	60.8	17.0	62.6	15.0	59.0
4	10	1989	15.5	59.9	17.0	62.6	15.5	59.9
4	11	1989	15.5	59.9	16.5	61.7	15.5	59.9
4	12	1989	15.5	59.9	16.5	61.7	15.5	59.9
4	13	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	14	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	15	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	16	1989	16.0	60.8	17.0	62.6	15.5	59.9
4	17	1989	16.0	60.8	17.0	62.6	16.0	60.8
4	18	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	19	1989	16.0	60.8	16.5	61.7	15.5	59.9
4	20	1989	15.5	59.9	16.5	61.7	15.0	59.0
4	21	1989	13.5	56.3	15.0	59.0	13.0	55.4
4	22	1989	12.0	53.6	13.0	55.4	11.5	52.7
4	23	1989	10.5	50.9	11.5	52.7	10.0	50.0
4	24	1989	11.0	51.8	12.0	53.6	10.5	50.9
4	25	1989	11.5	52.7	12.0	53.6	11.0	51.8
4	26	1989	12.5	54.5	13.5	56.3	11.5	52.7
4	27	1989	13.0	55.4	14.0	57.2	12.5	54.5
4	28	1989	13.5	56.3	14.0	57.2	13.0	55.4
4	29	1989	13.0	55.4	13.5	56.3	13.0	55.4
4	30	1989	12.5	54.5	13.0	55.4	12.5	54.5
5	2	1989	13.0	55.4	14.0	57.2	13.0	55.4
5	3	1989	13.0	55.4	14.0	57.2	12.5	54.5
5	4	1989	13.5	56.3	14.5	58.1	13.0	55.4
5	5	1989	14.0	57.2	15.0	59.0	13.5	56.3
5	6	1989	13.5	56.3	14.5	58.1	13.0	55.4
5	7	1989	13.0	55.4	14.0	57.2	12.5	54.5
5	8	1989	13.0	55.4	14.0	57.2	12.5	54.5
5	9	1989	12.0	53.6	12.5	54.5	11.0	51.8
5	10	1989	10.5	50.9	11.5	52.7	10.5	50.9
5	11	1989	11.0	51.8	12.0	53.6	10.5	50.9
5	12	1989	12.5	54.5	13.5	56.3	12.0	53.6
5	13	1989	12.5	54.5	13.5	56.3	12.0	53.6
5	14	1989	12.0	53.6	12.5	54.5	12.0	53.6
5	15	1989	12.0	53.6	12.5	54.5	12.0	53.6
5	16	1989	12.0	53.6	12.5	54.5	12.0	53.6
5	17	1989	12.0	53.6	13.0	55.4	12.0	53.6
5	18	1989	12.5	54.5	13.0	55.4	12.5	54.5
5	19	1989	13.0	55.4	14.5	58.1	12.0	53.6
5	20	1989	12.5	54.5	13.5	56.3	12.0	53.6
5	21	1989	12.0	53.6	12.5	54.5	12.0	53.6

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
5	22	1989	12.0	53.6	12.5	54.5	11.5	52.7
5	23	1989	11.5	52.7	12.5	54.5	11.0	51.8
5	24	1989	11.0	51.8	11.5	52.7	11.0	51.8
5	25	1989	11.5	52.7	12.0	53.6	11.0	51.8
5	26	1989	12.0	53.6	12.5	54.5	12.0	53.6
5	28	1989	12.0	53.6	12.5	54.5	11.5	52.7
5	29	1989	12.0	53.6	12.5	54.5	12.0	53.6
5	30	1989	12.5	54.5	13.0	55.4	12.0	53.6
5	31	1989	12.5	54.5	13.5	56.3	12.0	53.6
6	1	1989	13.0	55.4	13.5	56.3	12.5	54.5
6	2	1989	13.0	55.4	14.0	57.2	12.5	54.5
6	3	1989	13.0	55.4	14.0	57.2	13.0	55.4
6	4	1989	13.0	55.4	13.5	56.3	12.5	54.5
6	5	1989	12.5	54.5	13.0	55.4	12.5	54.5
6	6	1989	12.5	54.5	13.0	55.4	12.0	53.6
6	7	1989	13.0	55.4	13.5	56.3	12.5	54.5
6	8	1989	13.5	56.3	14.0	57.2	13.5	56.3
6	9	1989	13.5	56.3	14.0	57.2	13.5	56.3
6	10	1989	13.5	56.3	14.0	57.2	13.5	56.3
6	11	1989	13.5	56.3	14.0	57.2	13.0	55.4
6	12	1989	13.5	56.3	14.0	57.2	13.0	55.4
6	13	1989	13.5	56.3	14.0	57.2	13.0	55.4
6	14	1989	13.5	56.3	14.0	57.2	13.0	55.4
6	15	1989	12.5	54.5	13.5	56.3	12.0	53.6
6	16	1989	12.5	54.5	13.0	55.4	12.0	53.6
6	17	1989	12.5	54.5	13.0	55.4	12.5	54.5
6	18	1989	13.0	55.4	13.5	56.3	13.0	55.4
6	19	1989	13.0	55.4	13.5	56.3	12.5	54.5
6	20	1989	12.5	54.5	13.0	55.4	12.5	54.5
6	21	1989	12.5	54.5	13.0	55.4	12.5	54.5
6	22	1989	13.0	55.4	13.5	56.3	13.0	55.4
6	23	1989	13.5	56.3	14.0	57.2	13.0	55.4
6	24	1989	13.5	56.3	14.0	57.2	13.5	56.3
6	25	1989	13.5	56.3	14.0	57.2	13.0	55.4
8	21	1989	-	-	-	-	-	-
8	22	1989	15.0	59.0	16.0	60.8	15.0	59.0
8	23	1989	15.0	59.0	15.5	59.9	14.5	58.1
8	24	1989	14.5	58.1	15.5	59.9	14.0	57.2
8	25	1989	15.0	59.0	15.5	59.9	14.5	58.1
8	26	1989	15.0	59.0	15.5	59.9	14.5	58.1
8	27	1989	15.0	59.0	16.0	60.8	14.5	58.1
8	28	1989	15.5	59.9	16.5	61.7	15.0	59.0
8	29	1989	15.5	59.9	16.5	61.7	15.0	59.0
8	30	1989	15.5	59.9	16.0	60.8	15.0	59.0
8	31	1989	15.0	59.0	16.0	60.8	14.5	58.1

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	1	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	2	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	3	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	4	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	5	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	6	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	7	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	8	1989	15.0	59.0	15.5	59.9	14.5	58.1
9	9	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	10	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	11	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	12	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	13	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	14	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	15	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	16	1989	14.5	58.1	15.5	59.9	14.5	58.1
9	17	1989	14.0	57.2	14.5	58.1	14.0	57.2
9	18	1989	14.5	58.1	15.5	59.9	14.0	57.2
9	19	1989	15.5	59.9	16.5	61.7	15.0	59.0
9	20	1989	16.0	60.8	17.0	62.6	15.5	59.9
9	22	1989	16.5	61.7	17.0	62.6	16.0	60.8
9	23	1989	16.5	61.7	17.0	62.6	16.0	60.8
9	24	1989	16.5	61.7	17.5	63.5	16.0	60.8
9	25	1989	16.5	61.7	17.0	62.6	16.0	60.8
9	26	1989	16.0	60.8	16.5	61.7	15.5	59.9
9	27	1989	16.0	60.8	16.5	61.7	15.5	59.9
9	28	1989	16.0	60.8	16.5	61.7	15.5	59.9
9	29	1989	16.0	60.8	16.5	61.7	16.0	60.8
9	30	1989	16.0	60.8	16.5	61.7	15.5	59.9
10	1	1989	16.0	60.8	16.5	61.7	15.5	59.9
10	2	1989	15.5	59.9	16.5	61.7	15.5	59.9
10	3	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	4	1989	15.0	59.0	15.5	59.9	14.5	58.1
10	5	1989	14.5	58.1	15.0	59.0	14.5	58.1
10	6	1989	14.5	58.1	15.5	59.9	14.5	58.1
10	7	1989	15.0	59.0	16.0	60.8	14.5	58.1
10	8	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	9	1989	15.5	59.9	16.5	61.7	15.5	59.9
10	10	1989	15.5	59.9	16.5	61.7	15.5	59.9
10	11	1989	15.5	59.9	16.5	61.7	15.5	59.9
10	12	1989	15.5	59.9	16.5	61.7	15.5	59.9
10	13	1989	15.5	59.9	16.0	60.8	15.0	59.0
10	14	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	15	1989	15.0	59.0	15.5	59.9	14.5	58.1
10	16	1989	14.5	58.1	15.5	59.9	14.5	58.1
10	17	1989	14.5	58.1	15.0	59.0	14.0	57.2

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	18	1989	14.5	58.1	15.0	59.0	14.0	57.2
10	20	1989	14.5	58.1	15.0	59.0	14.0	57.2
10	21	1989	14.0	57.2	14.5	58.1	14.0	57.2
10	22	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	23	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	24	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	25	1989	13.0	55.4	14.0	57.2	12.0	53.6
10	26	1989	12.5	54.5	13.5	56.3	12.5	54.5
10	27	1989	13.0	55.4	14.0	57.2	13.0	55.4
10	28	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	29	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	30	1989	13.0	55.4	13.5	56.3	13.0	55.4
10	31	1989	12.5	54.5	13.5	56.3	12.5	54.5
11	1	1989	13.0	55.4	13.5	56.3	12.5	54.5
11	2	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	3	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	4	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	5	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	6	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	7	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	8	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	9	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	10	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	11	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	12	1989	14.0	57.2	14.5	58.1	14.0	57.2
11	13	1989	14.0	57.2	14.5	58.1	13.5	56.3
11	14	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	15	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	16	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	17	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	18	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	19	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	20	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	21	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	22	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	23	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	25	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	26	1989	12.5	54.5	13.0	55.4	12.5	54.5
11	27	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	28	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	29	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	30	1989	12.0	53.6	12.5	54.5	11.5	52.7
12	1	1989	12.0	53.6	12.5	54.5	11.5	52.7
12	2	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	3	1989	12.0	53.6	13.0	55.4	12.0	53.6

Table 13g. Daily Mean, Maximum, and Minimum Water Temperatures below the Red Bluff Diversion Dam, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	4	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	5	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	6	1989	12.5	54.5	13.5	56.3	12.0	53.6
12	7	1989	12.0	53.6	13.0	55.4	12.0	53.6
12	8	1989	12.0	53.6	12.5	54.5	11.5	52.7
12	9	1989	11.5	52.7	12.0	53.6	11.5	52.7
12	10	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	11	1989	11.5	52.7	12.0	53.6	11.0	51.8
12	12	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	13	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	14	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	15	1989	10.5	50.9	11.5	52.7	10.0	50.0
12	16	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	17	1989	10.5	50.9	11.5	52.7	10.5	50.9
12	18	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	19	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	20	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	21	1989	9.0	48.2	10.0	50.0	9.0	48.2
12	22	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	23	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	24	1989	9.5	49.1	10.0	50.0	9.0	48.2
12	25	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	26	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	27	1989	9.5	49.1	10.0	50.0	9.5	49.1
12	28	1989	9.5	49.1	10.0	50.0	9.0	48.2
12	29	1989	9.0	48.2	10.0	50.0	9.0	48.2
12	30	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	31	1989	9.5	49.1	10.0	50.0	9.5	49.1

YEAR 1986

Table 14a. Daily Maximum and Minimum Water Temperatures near Sacramento Bar, 1986-89^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1									63	58	59	55	61	57	61	57	58	55	56	53	52	50					
2									64	58	60	55	60	56	62	57	57	54	56	53	52	49					
3									63	58	61	56	61	56	61	57	57	54	57	54	53	51					
4									62	58	60	56	61	56	62	58	58	54	57	54	52	51					
5									62	57	60	56	61	57	62	58	60	55	57	54	52	51					
6									62	57	60	56	61	57	63	59	60	56	55	53	53	51					
7									62	57	60	56	61	56	63	59	59	55	54	52	53	51					
8									57	52	61	56	60	56	61	56	63	59	59	55	54	51	52	50			
9									59	53	62	56	60	56	60	56	63	59	59	55	54	51	52	49			
10									58	54	62	56	61	56	60	56	63	59	59	55	55	52	51	49			
11									58	53	62	56	61	57	61	56	62	59	58	55	55	52	50	49			
12									58	53	61	56	62	57	61	56	60	57	57	54	55	53	49	49			
13									57	52	60	56	61	57	61	56	60	56	56	53	55	52	49	49			
14									54	52	60	56	61	57	61	56	59	56	56	53	54	52	51	49			
15									54	52	60	56	60	57	60	56	57	54	56	53	54	52	52	50			
16									57	52	60	55	60	56	60	56	57	54	56	53	54	51	52	50			
17									60	53	60	55	60	56	60	56	57	54	55	54	52	51	49				
18									60	54	59	55	60	56	60	56	56	53	55	53	54	52	50	49			
19									60	55	59	54	60	56	60	56	56	53	56	53	55	53	50	50			
20									59	55	59	54	60	56	59	56	58	54	56	53	54	53	51	49			
21									58	53	60	55	60	56	59	55	59	55	56	53	52	50	49				
22									58	53	60	55	60	57	58	55	59	55	56	53	53	52	50	48			
23									58	54	61	56	60	57	59	54	58	56	54	53	54	52	50	48			
24									59	54	60	56	60	56	60	55	57	55	54	53	53	51	48	48			
25									61	55	61	56	60	56	60	55	56	54	56	53	53	51	51	48			
26									62	56	59	53	60	56	58	55	55	53	57	54	52	51	50	49			
27									62	57	57	53	60	56	59	54	55	53	57	55	52	50	49	49			
28									62	57	59	55	59	56	59	56	57	53	57	54	51	51	49	49			
29									63	57	59	55	59	56	60	56	58	54	56	54	52	51	49	48			
30									63	57	59	55	60	56	60	56	59	55	56	54	52	50	49	48			
31									61	58			60	56	61	57			56	54			49	49			
MAX													64		62		61		63		60		57		53		
MIN													53		55		54		53		53		50		48		

1/ Palmer thermograph located on east bank (river mile 235.7) about 1/4 mile below Hunters Resort.

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 14a. Daily Maximum and Minimum Water Temperatures near Sacramento Bar, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	48	48	47	51	48	60	55	53	51	58	53	57	55	59	57	62	59	64	60	56	55	53	51
2	49	48	47	47	50	49	60	56	54	51	60	54	57	55	59	57	62	57	64	60	57	54	54	53
3	48	47	48	46	51	50	58	55	56	52	60	54	56	55	59	57	61	58	64	60	57	54	55	54
4	48	46	50	47	51	50	58	53	57	53	60	55	56	54	59	57	60	57	64	60	58	55	55	54
5	49	47	50	47	51	50	58	53	58	53	58	54	57	55	59	57	59	56	64	60	57	56	55	54
6	48	46	50	48	52	50	57	53	58	54	57	53	57	55	59	57	59	55	63	60	57	56	54	52
7	47	45	51	48	53	50	57	53	58	54	57	53	57	55	60	57	59	56	63	60	58	55	52	50
8	48	45	51	48	51	50	58	54	58	54	57	53	58	56	60	57	59	55	62	59	57	55	51	50
9	48	46	50	49	52	49	59	54	56	52	57	53	58	56	60	57	59	55	62	59	58	55	51	50
10	47	46	50	49	51	50	57	55	56	51	57	54	58	55	60	57	60	56	60	58	57	55	54	51
11	-	-	51	49	51	50	56	53	58	54	57	54	58	56	60	57	60	56	60	57	56	54	53	49
12	-	-	50	49	51	50	56	52	58	54	57	53	58	56	60	57	61	57	60	58	56	54	48	46
13	-	-	52	50	51	50	56	52	57	54	57	54	59	57	60	57	61	58	61	58	56	55	47	45
14	-	-	51	48	51	50	57	52	57	54	57	53	59	57	60	57	62	58	60	57	56	54	46	44
15	-	-	49	47	50	48	58	53	57	54	56	53	59	57	61	57	62	58	59	56	54	52	46	45
16	-	-	50	48	52	48	58	54	60	55	55	53	59	56	61	57	62	58	59	56	54	52	47	46
17	46	42	50	47	53	50	56	52	60	55	55	53	55	53	61	58	63	58	59	56	54	52	49	47
18	47	44	51	48	52	50	53	51	60	54	56	53	56	53	62	58	64	60	58	55	55	53	48	47
19	47	45	50	48	52	49	54	50	59	54	56	54	56	55	62	58	64	60	58	55	55	53	49	47
20	48	45	50	48	50	48	55	51	59	54	57	54	57	55	61	58	64	60	58	55	54	53	48	46
21	47	45	50	48	49	47	55	52	59	54	57	54	56	55	62	58	64	60	57	55	54	52	49	48
22	47	45	50	47	49	46	54	51	59	54	57	53	57	54	62	59	65	61	57	56	54	52	50	49
23	46	46	49	46	52	48	55	51	60	54	57	54	57	55	62	58	65	62	57	56	54	51	49	47
24	47	46	48	46	53	48	55	52	59	54	58	54	58	55	62	58	63	62	58	56	54	52	47	44
25	47	45	48	45	55	50	56	52	58	54	59	55	58	56	63	59	63	60	59	56	54	52	46	43
26	48	45	49	45	56	51	56	53	58	53	59	55	58	56	63	59	64	60	59	56	53	51	46	44
27	49	47	50	46	56	52	56	52	58	54	59	55	58	56	63	58	64	60	57	52	50	45	44	
28	49	47	50	47	56	51	55	52	59	54	57	55	59	56	62	58	64	60	60	58	53	50	45	44
29	48	47			56	52	55	52	58	54	57	55	58	56	62	57	64	60	59	57	52	50	44	43
30	49	48			58	53	55	52	57	53	57	55	59	56	62	57	64	60	58	56	51	51	44	43
31	49	47			59	54			57	53			59	57	63	59			59	56			44	42
MAX			52		59		60		60		60		59		63		65		64		58		55	
MIN			45		46		50		51		53		53		57		55		55		50		42	

-No Data.

YEAR 1988

Table 14a. Daily Maximum and Minimum Water Temperatures near Sacramento Bar, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	44	43	48	45	52	50	54	50	56	51	54	52	59	56	61	59	66	62	64	60	58	56	52	50
2	45	44	47	45	53	50	54	50	57	52	57	52	60	57	61	59	67	63	63	60	57	57	52	50
3	45	44	47	44	53	50	53	50	56	52	60	55	60	58	61	59	67	63	63	59	57	57	52	50
4	44	43	47	44	53	50	53	50	57	52	58	53	59	57	61	59	67	63	63	59	57	57	52	50
5	46	44	47	44	52	51	53	50	54	52	56	52	58	56	61	58	67	63	62	59	59	56	53	51
6	48	46	47	44	54	51	54	50	53	50	54	51	58	56	60	58	66	62	63	60	58	56	54	52
7	47	46	48	45	55	51	55	51	51	50	52	50	59	56	61	58	65	61	63	60	57	55	54	52
8	47	46	50	46	54	50	54	51	54	50	53	50	59	56	61	59	65	61	63	59	56	54	54	52
9	47	46	51	49	54	50	54	51	54	52	56	52	60	57	62	59	65	61	63	59	55	54	53	52
10	49	47	52	48	52	49	54	51	55	53	58	53	61	58	62	59	65	61	62	59	55	53	54	52
11	49	46	53	49	51	48	54	52	56	54	59	54	60	58	62	59	64	60	62	59	56	54	54	52
12	47	46	52	49	52	48	54	52	57	55	60	54	60	58	62	59	64	60	62	58	55	55	54	52
13	46	45	52	49	52	48	52	50	57	54	61	56	60	58	61	58	64	60	60	58	55	54	54	52
14	47	46	51	48	52	48	51	50	58	54	61	56	60	58	61	58	64	60	60	58	55	54	53	50
15	47	46	52	48	53	49	53	50	60	55	61	56	61	58	61	58	64	60	62	58	54	53	50	49
16	47	46	51	48	53	48	53	51	56	53	60	56	62	59	62	58	65	61	62	59	54	54	50	49
17	46	45	50	47	53	49	53	51	56	53	61	56	62	60	63	60	64	61	63	60	54	52	51	49
18	45	44	50	48	53	49	53	51	58	54	61	56	62	60	64	60	63	59	63	60	53	51	51	49
19	46	44	51	48	54	49	52	50	59	55	61	57	62	60	65	61	62	59	62	59	54	52	51	50
20	46	44	52	48	54	50	51	50	60	55	60	56	62	60	66	61	61	58	62	59	55	53	51	50
21	47	44	53	49	54	51	54	51	61	55	60	56	62	60	65	62	63	58	62	58	54	53	50	48
22	48	45	53	50	54	51	53	51	60	55	61	56	62	60	66	62	63	59	61	57	54	52	49	47
23	49	46	53	50	54	51	54	50	59	55	61	57	62	59	66	62	63	59	60	57	53	51	47	47
24	50	47	53	50	54	51	56	52	60	54	62	58	62	59	66	62	63	59	60	56	51	50	47	45
25	49	47	52	50	55	50	56	53	60	55	61	58	61	59	66	62	63	60	60	56	49	49	46	44
26	48	46	52	50	56	51	57	53	59	55	60	56	61	59	67	62	63	59	60	57	49	48	46	44
27	48	46	52	50	53	50	57	54	59	55	58	56	62	60	67	62	63	59	60	57	51	49	44	43
28	48	47	53	51	52	49	58	54	56	53	58	56	63	59	66	62	64	60	58	56	52	50	45	43
29	49	48	53	51	53	49	56	54	54	51	57	55	62	59	66	62	64	60	58	56	53	51	45	44
30	48	46			52	49	55	52	56	52	58	55	61	58	66	62	64	60	58	56	52	50	45	44
31	47	45			53	49			56	52			60	58	66	62			58	56			45	44
MAX	50		53		56		58		61		62		63		67		67		64		58		54	
MIN	43		44		48		50		50		50		56		58		58		56		48		43	

YEAR 1989

Table 14a. Daily Maximum and Minimum Water Temperatures near Sacramento Bar, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	43	50	48	48	46	54	51	56	52	57	52	54	51	57	56	61	57	63	59	56	53	55	53
2	47	44	48	45	47	46	52	50	57	53	58	52	54	52	58	56	61	57	62	59	56	54	55	53
3	47	45	46	43	48	45	54	50	58	52	58	53	55	52	58	57	60	56	61	58	56	54	55	53
4	46	45	46	43	46	45	57	51	59	54	56	54	56	52	58	57	61	56	60	57	57	54	55	53
5	45	44	42	40	45	44	60	54	59	54	55	52	57	52	58	57	61	56	60	57	57	55	56	54
6	44	42	41	38	46	44	62	56	57	54	55	52	57	52	59	57	61	56	60	57	56	54	56	53
7	44	42	42	39	49	46	63	57	57	52	56	52	58	53	58	57	61	56	61	57	56	53	54	52
8	43	42	43	40	52	49	64	58	57	53	58	54	58	54	59	58	60	56	61	58	56	54	53	52
9	43	43	44	43	52	51	64	59	53	50	58	54	58	54	59	58	60	56	62	58	57	54	54	52
10	44	43	45	44	52	50	63	58	50	48	58	54	58	54	60	58	60	56	62	59	57	54	53	51
11	44	42	47	44	53	50	63	58	53	48	58	54	58	54	60	57	61	57	62	59	57	55	52	50
12	44	42	48	45	53	51	62	58	56	50	57	53	58	54	60	57	61	57	-	59	58	54	51	49
13	44	42	48	45	52	50	63	58	55	51	58	53	58	54	60	57	61	56	-	-	57	54	52	49
14	44	42	47	45	52	49	62	58	53	51	57	53	58	54	61	57	60	56	-	-	56	54	52	49
15	45	43	47	44	53	48	64	59	53	50	54	52	58	54	61	58	61	56	60	58	55	53	52	50
16	46	44	49	46	52	50	63	59	53	51	55	51	58	54	61	58	58	57	-	56	55	53	52	50
17	47	44	50	47	51	49	64	59	54	51	56	52	60	54	61	58	57	55	59	57	57	54	52	50
18	48	45	49	48	49	48	64	60	55	51	56	52	61	58	60	58	57	55	59	56	57	55	51	49
19	49	46	50	48	51	48	64	59	57	50	56	53	60	58	60	58	60	56	58	56	57	54	51	48
20	49	46	51	47	55	51	63	59	56	51	55	52	59	58	61	59	62	57	57	56	57	54	49	47
21	48	46	52	48	55	52	61	57	54	51	56	52	58	57	61	58	63	59	56	55	58	55	48	47
22	47	47	51	49	55	52	57	54	53	51	57	53	58	56	59	56	64	60	55	55	57	55	49	48
23	47	44	51	47	54	52	54	51	53	50	58	54	58	56	59	55	63	60	56	55	56	55	48	47
24	46	43	49	47	52	51	50	48	52	49	57	54	57	56	60	56	63	60	55	52	56	55	48	47
25	46	44	49	46	53	50	50	49	53	49	57	54	58	56	60	56	63	60	55	52	55	54	49	48
26	48	44	50	46	50	48	53	50	55	50	56	53	58	56	60	56	62	60	55	53	55	53	49	47
27	48	45	51	47	50	48	56	51	55	51	55	52	58	56	61	56	62	60	56	54	54	53	48	47
28	48	45	50	47	52	50	58	52	55	51	53	50	58	56	61	57	62	59	56	54	55	53	49	47
29	49	46			54	50	57	53	54	50	51	50	58	57	61	57	62	60	56	53	54	52	49	47
30	50	47			54	51	57	53	55	51	53	50	58	57	61	57	62	60	55	52	55	52	50	48
31	50	47			54	51			56	51			58	57	61	56			56	53			49	48
MAX	50		52		55		64		59		58		61		61		64			58		56		
MIN	42		38		44		48		48		50		51		55		55			52		47		

-No Data.

YEAR 1976

Table 15a. Daily Maximum and Minimum Water Temperatures at Tehama, 1976-77^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1								64	62.5	67	62	66.5
2								64	63.5	67.5	63.5	65
3								64	62.5	68	64	63
4								63.5	62.5	68	64	61
5								65	62.5	68	64	64.5
6								64	63.5	68	65	64
7								65	63	66	64.5	65
8								66	64	67	63	65.5
9								66	64	67.5	62	65.5
10								66	64	67.5	64	63.5
11								66	64	66	65	63.5
12								66.5	64	66	63.5	63.5
13								65	64	67	63	64.5
14								64.5	63	67	65	64
15								64	63	67.5	65	63.5
16								63.5	62.5	67.5	65	63
17								64	63	65.5	64	60.5
18								64.5	63	66.5	63	62
19								64.5	63	67	64	62
20								67	63.5	67	65	61
21								67.5	65	67	64	61
22								67.5	66	66	64	60
23								66	64	66	64	60
24								67	64.5	66	63	59
25								68	65	66	63	58
26								68	65	67	63	57
27								67	64	66.5	63	58
28								67	64	65.5	62.5	57
29								68	64	66	64	57
30								64	67	64	67	57
31								64	68	63.5		55
MAX									68	68	66.5	58
MIN									62.5	62	55	46

1/ Palmer thermographs located on east bank at Pelham Bay Resort boat dock (river mile 229.4).

2/ From unpublished DFG, Region 1 data.

YEAR 1977

Table 15a. Daily Maximum and Minimum Water Temperatures at Tehama, 1976-77, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1							62	60	70.5	67	73	71
2							64	62	71	67.5	73	71
3							65	61	71.5	68	73	71
4							-	-	71.5	68	74	72
5							-	-	70.5	67.5	74	72
6							65	61	70.5	67	74	72
7							66	62	70	66.5	73	72
8							65	63	66	62	70	66.5
9							66	61	66	62	70	66.5
10							63	60	66	62	70.5	67
11							64	61	67	63	71.5	67.5
12							65	61	67	63	71.5	68
13							66	61	67	63	71.5	67.5
14							65	61	67	63	70.5	67.5
15							66	60	67	63	70	67
16							66	61	67	63	70.5	67
17							64	59	68	64	69.5	67.5
18							63	59	68	64	70	66.5
19							63	60	68	64	70.5	67.5
20							63	59	68	64	71	67.5
21							64	60	68	64	71.5	68
22							64	60	68	64	71.5	68
23							64	59.5	68	64	72	68
24							64	60	68	64	70.5	68
25							-	-	68	64	-	67
26							-	-	69	65	-	-
27							-	-	69	65	71	68
28							-	-	69	65	72	71
29							66	62	70	66.5	72	70
30							63	58	70.5	67	73	71
31											73	71
MAX											74	68
MIN											61.5	56

YEAR 1983

Table 15b. Daily Maximum and Minimum Water Temperatures at Tehama, 1983-84^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1											56	54	57	55	61	58	57	54	56	55	58	58	52	52			
2											56	55	58	55	61	58	58	55	57	56	58	57	52	52			
3											57	54	59	56	61	58	59	56	58	56	58	57	57	48			
4											58	56	60	57	61	58	59	56	58	56	58	57	57	49			
5											58	56	61	58	60	58	59	56	58	56	58	57	56	49			
6											59	57	60	57	60	58	60	57	58	56	56	56	56	50			
7											59	57	59	56	61	58	61	57	58	56	56	56	54	50			
8											58	56	58	56	61	58	62	58	58	56	54	54	50	50			
9											59	56	58	56	61	58	62	58	58	56	54	54	50	50			
10											51	50	57	54	59	56	61	58	62	58	58	56	54	53	50		
11											52	50	56	53	60	56	61	58	62	59	58	56	54	53	50		
12											52	50	57	54	60	57	60	58	62	60	58	56	54	-	-		
13											53	51	58	56	60	57	60	58	62	60	58	56	54	-	-		
14											54	52	58	55	61	58	60	58	62	60	57	55	54	-	-		
15											55	52	58	56	61	58	61	58	62	60	56	54	52	-	-		
16											58	53	60	57	60	58	61	58	62	59	56	54	53	-	-		
17											60	54	60	57	60	57	60	58	62	59	56	54	54	54	-		
18											61	56	58	56	60	56	60	57	61	58	56	54	55	53	-		
19											58	55	59	56	58	56	60	57	61	58	56	54	55	53	-		
20											59	56	60	56	60	56	59	56	61	58	57	55	53	53	-		
21											59	55	59	56	60	56	58	56	60	58	58	56	53	52	-		
22											59	56	60	56	61	58	59	56	59	57	58	56	52	51	-		
23											60	56	59	57	61	58	59	56	59	57	58	56	52	52	-		
24											60	56	60	57	61	58	60	56	60	58	58	57	52	52	-		
25											58	56	60	57	61	58	59	56	60	58	58	56	50	49	-		
26											58	56	60	57	60	58	59	56	60	57	58	56	50	49	-		
27											58	56	60	57	60	58	58	56	60	57	58	56	51	50	-		
28											58	56	59	56	61	58	58	56	59	57	58	56	52	52	-		
29											57	56	59	56	61	58	59	56	58	56	56	56	52	51	-		
30											57	55	60	56	61	58	59	56	57	56	56	56	52	52	-		
31											56	55			61	58	55	54			58	57			-	-	
MAX															60		61		61		62		58		58		
MIN															53		55		54		54		54		49		
-No Data.																											

1/ Palmer thermograph located on west bank about 200 yards above the railroad bridge.

2/ From unpublished DWR, Northern District data.

YEAR 1984

Table 15b. Daily Maximum and Minimum Water Temperatures at Tehama, 1983-84, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1		-	-	51	50							
2	48	48	52	51								
3	48	47	52	52								
4	48	46	52	52								
5	48	48	52	51								
6	48	48	52	51								
7	48	48	53	51								
8	48	48	53	52								
9	48	48	54	52								
10	48	48	54	53								
11	48	46	54	53								
12	46	46	55	54								
13	46	46	54	53								
14	46	46	53	53								
15	46	46	53	53								
16	46	46	53	52								
17	46	46	52	52								
18	47	46	52	52								
19	48	47	52	52								
20	48	48	53	52								
21	48	48	53	53								
22	48	48	53	53								
23	47	46	53	53								
24	48	46										
25	50	47										
26	50	48										
27	50	48										
28	50	49										
29	50	49										
30												
31												

MAX

MIN

-No Data.

YEAR 1986

Table 15c. Daily Maximum and Minimum Water Temperatures at Tehama, 1986-89^{1/2}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1					56	54	63	59	61	57	62	58	61	57	58	56	56	54	51	50				
2					54	53	65	59	61	57	62	58	61	58	58	55	56	54	51	50				
3					54	52	64	60	62	58	62	58	62	59	62	59	58	55	56	54	52	50		
4					53	50	63	60	62	59	62	58	62	59	62	59	59	56	56	54	52	50		
5					54	52	63	59	61	58	63	59	62	59	60	57	56	55	52	51				
6					55	52	63	59	61	58	62	59	63	60	59	57	55	54	52	51				
7					56	51	63	59	62	58	62	58	63	61	59	56	54	53	52	50				
8					58	53	62	58	62	58	62	58	63	61	59	56	54	52	51	50				
9					59	54	62	58	62	58	62	58	63	60	59	56	54	52	51	49				
10					59	55	63	58	62	58	62	58	63	60	59	56	55	53	51	49				
11					58	54	62	58	63	58	62	58	62	60	58	56	55	53	50	49				
12					58	54	62	58	63	59	62	58	61	60	57	55	55	53	50	49				
13					58	53	62	58	63	59	62	58	61	59	57	55	55	53	50	49				
14					55	52	62	58	63	59	62	58	61	59	58	56	54	53	51	50				
15					55	52	61	57	62	59	62	58	59	57	57	55	54	53	52	50				
16					57	53	61	57	62	58	62	58	57	56	56	55	54	53	53	51				
17					56	52	60	54	61	57	61	57	62	58	58	56	56	55	54	53	52	50		
18					57	52	60	56	61	57	61	57	62	58	57	55	56	54	53	50	50			
19					59	55	60	56	60	56	61	57	62	58	58	55	56	54	55	54	50	50		
20					61	56	60	56	60	56	61	57	61	58	59	56	56	54	55	54	54	51	50	
21					63	59	58	55	61	56	62	58	61	58	59	56	57	55	54	53	50	49		
22					63	60	58	54	61	57	62	58	60	58	60	57	57	55	54	53	50	49		
23					61	58	58	54	62	57	62	58	60	57	59	57	55	54	53	50	49			
24					58	56	60	55	62	58	61	58	61	57	58	57	55	54	53	52	50	49		
25					58	55	61	56	62	58	61	58	61	58	58	56	56	54	53	51	49	48		
26					57	54	62	57	60	57	61	58	60	58	56	55	57	55	52	51	50	48		
27					57	54	62	58	59	55	61	57	61	58	58	55	57	56	52	50	50	49		
28					57	54	63	58	61	57	61	57	61	57	58	58	55	57	56	51	50	50	49	
29					58	53	63	58	61	57	61	57	61	57	58	55	57	55	51	50	49	49		
30					57	53	63	59	61	57	61	57	61	57	59	56	56	55	51	50	49	48		
31					61	59			62	58	61	57					56	54			48	48		
MAX									63		65		63		63		60		56		53			
MIN									50		55		57		57		54		50		48			

1/ Palmer thermograph located on west bank about 200 yards downstream from bridge (river mile 229.2).

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 15c. Daily Maximum and Minimum Water Temperatures at Tehama, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	48	48	48	52	49	59	55	53	51	58	54	59	56	60	58	63	61	62	60	56	55	51	50
2	48	48	48	48	52	51	59	56	54	51	59	54	59	56	60	58	62	59	63	61	56	55	53	51
3	48	47	49	48	52	51	59	57	55	51	60	55	58	56	60	58	62	61	63	61	57	55	53	53
4	48	47	51	49	52	51	58	54	56	53	60	55	58	56	60	58	61	59	63	61	57	55	54	53
5	-	-	51	50	52	52	57	53	57	53	57	55	58	56	60	58	60	58	63	61	57	56	53	52
6	-	-	51	50	53	52	57	54	58	54	57	54	58	56	60	58	60	57	63	61	57	56	52	51
7	-	-	51	50	54	52	57	54	58	54	58	54	58	56	60	58	60	58	63	61	58	56	51	50
8	-	-	51	50	52	52	58	54	57	54	57	54	58	57	61	58	60	58	63	61	57	55	50	49
9	-	-	50	50	53	51	58	55	56	52	57	54	58	57	61	58	60	58	62	60	58	56	50	49
10	-	-	50	50	52	52	57	55	56	52	58	54	59	57	61	58	61	58	61	60	57	55	53	51
11	-	-	51	50	52	52	56	53	56	54	58	55	60	57	61	58	62	59	60	59	57	55	53	48
12	-	-	51	50	53	52	56	52	56	54	58	55	60	57	61	58	62	59	61	59	56	55	48	45
13	-	-	52	51	52	51	56	52	58	55	58	55	60	58	62	58	62	60	61	59	57	56	46	44
14	-	-	52	51	52	51	57	53	57	55	58	55	60	58	62	59	62	60	60	59	57	55	45	44
15	-	-	52	51	52	50	58	54	58	55	57	54	60	58	62	59	63	61	60	58	55	54	46	45
16	-	-	52	50	54	50	58	54	60	55	56	53	60	58	62	60	63	61	60	58	55	53	46	46
17	46	43	51	49	54	52	56	53	60	56	57	54	57	55	62	60	62	61	60	57	55	54	47	46
18	47	45	51	49	54	51	53	51	60	56	57	54	57	55	62	60	63	60	59	57	55	54	-	-
19	47	46	51	50	53	50	54	51	59	55	58	54	58	56	62	60	63	61	59	57	55	54	-	-
20	47	45	52	50	51	50	55	50	59	54	58	55	58	56	62	60	63	61	59	57	55	54	-	-
21	47	46	51	50	51	48	55	52	59	55	58	55	58	56	63	60	64	61	59	57	55	53	-	-
22	47	46	51	50	51	48	55	52	59	55	58	55	58	56	63	60	64	62	58	57	54	53	-	-
23	47	47	50	49	53	50	55	52	60	55	58	55	58	56	63	60	64	62	59	57	54	52	-	-
24	47	47	50	48	53	50	55	52	59	55	59	55	58	56	63	60	63	62	59	57	53	52	-	-
25	47	46	49	47	54	51	56	53	58	55	60	56	58	57	64	60	63	61	60	57	52	51	-	-
26	48	46	50	47	56	52	57	53	58	54	60	56	59	57	64	61	63	61	60	57	51	50	-	-
27	49	48	50	47	56	53	56	53	58	54	60	57	59	57	64	60	63	61	60	58	51	49	-	-
28	49	48	51	48	56	53	55	53	59	55	58	56	60	57	63	60	63	61	60	58	52	50	-	-
29	48	47			58	54	55	53	58	55	58	56	60	57	62	59	62	60	59	58	52	51	-	-
30	49	48			58	55	53	51	57	54	59	56	59	57	63	60	62	60	58	57	50	50	-	-
31	49	48			59	55			57	54			60	57	63	61			58	56				
MAX			52		59		59		60		60		60		64		64		63		58			
MIN			47		48		50		51		53		56		58		57		56		49			

-No Data.

YEAR 1988

Table 15c. Daily Maximum and Minimum Water Temperatures at Tehama, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	-	-	-	-	52	51	54	50	56	52	56	54	59	57	62	59	-	-	64	61	57	56	-	-
2	-	-	-	-	53	50	54	50	57	53	58	54	60	57	62	60	65	62	63	60	57	56	-	-
3	-	-	-	-	53	51	53	50	56	53	61	56	61	58	61	59	65	62	62	60	57	56	-	-
4	-	-	-	-	53	51	53	50	56	52	60	57	60	57	62	59	65	62	62	60	58	56	-	-
5	-	-	46	44	53	52	53	50	54	52	57	54	59	57	61	59	65	62	62	60	58	57	-	-
6	-	-	46	44	54	52	54	50	53	51	56	53	59	57	61	58	65	62	62	60	58	56	-	-
7	-	-	47	45	54	51	54	51	51	50	54	53	59	57	61	59	64	61	63	60	56	55	-	-
8	-	-	49	46	54	51	53	51	53	50	55	52	59	57	62	60	64	61	63	60	55	54	-	-
9	-	-	50	48	54	51	53	50	54	52	57	53	61	57	62	60	64	61	63	60	54	53	-	-
10	-	-	51	48	52	50	53	51	55	52	58	54	61	59	63	60	64	61	62	60	54	53	-	-
11	-	-	52	49	51	48	54	51	55	53	60	56	61	59	63	60	62	60	62	60	55	54	-	-
12	-	-	52	49	51	48	54	52	56	54	61	56	61	59	63	60	62	59	62	60	55	54	-	-
13	-	-	51	49	51	48	52	50	57	54	62	57	61	59	62	59	62	60	61	59	55	54	-	-
14	-	-	51	48	52	48	51	50	59	54	62	58	61	59	62	59	63	60	60	59	55	53	-	-
15	-	-	51	48	52	49	52	50	59	55	61	57	62	59	62	59	63	60	61	59	54	53	-	-
16	-	-	50	48	52	49	53	51	57	54	61	57	62	60	63	60	64	61	62	60	54	54	-	-
17	-	-	50	48	52	49	52	51	57	54	61	58	62	60	64	61	63	61	62	60	55	54	-	-
18	-	-	50	47	53	49	52	51	59	55	62	57	62	60	64	61	61	59	62	60	54	53	-	-
19	-	-	51	47	53	50	51	50	60	55	62	58	62	60	65	62	60	59	62	60	-	53	-	-
20	-	-	51	48	54	51	52	50	60	56	61	58	63	60	66	62	60	58	61	59	-	-	-	-
21	-	-	52	49	54	51	54	51	61	56	61	58	63	61	66	63	62	58	61	58	-	-	-	-
22	-	-	53	50	54	52	54	52	60	56	61	58	63	61	66	63	63	59	60	58	-	-	-	-
23	-	-	52	50	54	52	55	52	59	55	62	59	62	60	67	64	63	60	60	58	-	-	-	-
24	-	-	53	50	54	51	56	53	60	55	62	59	62	60	66	64	63	60	59	57	-	-	-	-
25	-	-	52	50	55	51	56	54	60	56	62	59	62	60	-	-	63	60	59	57	-	-	-	-
26	-	-	52	51	55	51	57	54	60	56	61	58	62	60	-	-	63	60	59	57	-	-	-	-
27	-	-	52	51	53	50	57	54	60	56	60	57	63	60	-	-	63	60	59	57	-	-	-	-
28	-	-	53	52	52	49	57	54	58	56	59	57	63	60	-	-	63	60	58	57	-	-	-	-
29	-	-	53	52	53	49	56	53	56	53	58	56	62	59	-	-	64	60	58	56	-	-	-	-
30	-	-	52	49	55	52	57	53	59	56	61	59	-	-	63	61	57	56	-	-	-	-	-	-
31	-	-	53	49	57	54	57	54	-	-	61	59	-	-	-	-	57	56	-	-	-	-	-	-
MAX		55		57		61		62		63							64							
MIN		48		50		50		52		57							56							

-No Data.

YEAR 1989

Table 15c. Daily Maximum and Minimum Water Temperatures at Tehama, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	-	-	50	49	48	47	-	-	56	53	57	53	55	53	57	55	60	57	62	59	55	52	52	51
2	-	-	49	46	47	46	-	-	57	53	58	53	56	53	57	55	60	57	61	59	55	53	53	51
3	-	-	46	44	48	46	-	-	57	52	58	54	56	54	57	55	60	57	60	57	55	53	53	51
4	-	-	46	44	46	46	-	-	59	53	57	54	57	54	57	55	60	56	59	57	55	53	53	51
5	45	44	44	41	46	45	-	-	59	54	55	53	58	54	58	56	60	57	59	57	55	53	54	52
6	44	42	41	39	47	45	-	-	57	55	55	52	58	54	58	56	60	57	59	57	54	53	53	52
7	43	42	42	40	50	47	-	-	57	53	56	52	58	54	58	56	60	57	60	57	54	52	53	51
8	43	43	43	40	52	50	-	-	57	54	58	54	59	55	58	56	60	56	60	58	54	52	52	51
9	43	43	44	43	52	52	62	-	53	51	58	54	59	55	59	57	60	56	61	58	55	53	52	50
10	44	43	45	44	52	51	62	58	51	50	58	54	59	56	59	57	60	57	61	59	56	54	51	50
11	44	42	47	45	53	51	61	58	53	49	58	54	60	56	59	56	60	57	61	59	56	54	50	48
12	44	42	48	45	53	51	61	58	56	51	57	54	60	56	59	56	60	57	61	59	55	54	49	48
13	44	43	47	46	52	50	61	58	56	52	58	54	60	56	59	56	60	57	60	59	55	53	50	48
14	45	43	47	46	51	49	62	59	54	51	58	54	59	56	60	56	60	56	60	58	54	52	50	48
15	45	44	47	46	-	-	62	59	54	51	55	53	59	56	60	57	60	56	59	57	53	52	50	49
16	46	44	48	46	-	-	62	59	55	51	55	52	59	56	60	57	59	57	59	57	54	52	50	49
17	47	45	49	48	-	-	63	59	55	51	56	52	59	56	60	56	58	56	57	56	55	53	50	49
18	47	45	49	48	-	-	63	60	56	52	57	53	60	56	60	56	58	56	57	55	56	54	50	49
19	48	46	49	48	-	-	63	60	57	52	56	53	59	56	60	56	61	57	57	56	55	54	49	48
20	48	46	50	48	-	-	62	60	56	53	55	52	58	56	60	57	62	59	56	56	56	53	49	48
21	48	46	50	49	-	-	60	58	54	51	56	52	58	56	61	57	63	61	56	55	56	54	48	48
22	47	47	50	49	-	-	58	55	54	51	57	53	58	56	60	58	63	60	55	55	56	54	48	47
23	47	45	50	48	-	-	55	52	53	51	58	54	58	55	59	56	62	61	56	55	55	54	48	48
24	46	44	49	48	-	-	52	49	52	50	58	54	57	55	60	56	62	61	55	52	55	54	48	46
25	46	44	49	47	-	-	52	49	53	50	57	54	57	55	60	56	63	61	54	52	54	53	49	48
26	47	45	50	47	-	-	53	50	55	51	57	54	57	55	60	56	61	60	53	52	53	52	49	48
27	48	46	51	48	-	-	55	51	55	52	57	54	57	55	60	56	61	59	55	53	52	51	48	48
28	48	46	50	47	-	-	57	53	55	51	55	52	57	55	61	57	61	59	54	52	53	51	48	48
29	48	46	-	-	57	53	55	51	53	53	57	55	61	58	61	59	54	52	52	51	49	47		
30	50	48	-	-	56	54	55	51	54	52	57	56	61	58	62	59	53	51	52	50	49	47		
31	50	48	-	-	-	-	56	52	-	-	57	55	60	57	-	-	54	51	-	-	49	48		
	MAX		51				59		58		60		61		63		62		56		54			
	MIN		39				49		51		53		55		56		51		50		46			

-No Data.

YEAR 1945

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	
1								63	-	63	57	62	57
2								63	57	64	57	62	58
3								63	57	63	57	62	58
4								62	52	63	57	61	59
5								63	57	63	58	63	58
6								63	58	63	58	63	59
7								63	57	63	58	64	60
8								63	57	63	58	65	61
9								63	57	64	58	63	61
10								64	57	64	59	62	60
11								63	58	64	59	62	59
12								63	57	64	60	63	60
13								62	56	64	60	63	58
14								62	56	64	59	64	60
15								62	56	64	59	63	60
16								62	58	63	60	62	59
17								63	52	65	60	62	59
18								60	57	66	61	62	58
19								61	56	63	60	62	58
20								64	57	61	58	62	58
21								64	58	61	57	60	58
22								64	57	60	56	57	56
23								63	57	61	56	57	53
24								63	57	62	57	57	53
25								62	57	62	58	57	53
26								62	57	60	57	58	54
27								61	56	59	56	59	55
28								61	56	60	56	58	57
29								61	57	60	55	57	56
30								63	57	61	56	-	56
31								63	57			57	56
MAX									64		66		
MIN									52		55		
-No Data.													

1/ Thermograph type and exact location unknown.

2/ From USFWS, 1949 and 1952.

YEAR 1946

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-46, (Continued)

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1	-	-	64	58	65	58	62	56	61	57	59	-
2	-	-	64	58	65	-	63	57	60	57	58	55
3	-	-	64	59	64	59	64	58	60	55	58	55
4	-	-	63	59	64	58	64	58	61	55	59	55
5	-	-	62	57	64	59	64	58	60	56	58	55
6	-	-	61	56	64	59	62	57	60	56	59	56
7	-	-	61	56	64	58	62	56	61	56	58	55
8	-	-	61	56	64	58	62	56	62	58	58	55
9	-	-	60	56	64	59	62	56	62	57	59	55
10	-	-	60	55	64	58	63	57	61	56	60	57
11	-	-	61	55	64	58	63	57	60	56	60	56
12	-	-	61	55	64	58	63	57	60	56	60	56
13	60	-	62	56	64	59	63	57	60	56	60	55
14	60	55	62	56	62	57	62	56	60	56	60	56
15	60	54	62	56	62	58	62	56	60	56	56	55
16	61	54	63	57	62	58	62	56	60	56	56	53
17	62	55	62	58	62	58	62	56	60	56	56	53
18	63	57	64	57	63	57	62	57	61	57	57	54
19	64	58	64	58	65	57	63	57	62	58	56	53
20	63	58	64	58	65	58	63	56	62	59	57	54
21	58	56	63	58	65	58	63	57	64	59	57	56
22	56	53	61	57	65	59	62	57	64	61	56	50
23	56	51	60	56	64	59	61	56	62	61	57	53
24	58	52	62	56	64	59	63	57	62	59	58	54
25	56	50	62	56	59	58	63	58	63	59	59	55
26	57	53	62	57	58	56	64	58	62	59	58	56
27	59	53	62	57	63	58	63	58	63	59	56	52
28	61	55	61	57	64	57	61	57	63	59	56	54
29	61	56	61	57	63	58	61	56	63	59	53	49
30	61	56	63	57	62	59	62	57	63	59	53	50
31							62	57	62	57	53	50
MAX						64		64		64		54
MIN						55		56		55		47
-No Data.												

YEAR 1947

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	47	43	47	43	-	-	56	50	63	58	-	-	64	58	64	59	64	57	62	58	57	52	54	50
2	46	44	48	44	-	-	54	51	64	59	-	-	63	59	64	59	65	57	62	57	55	51	52	48
3	46	43	50	45	-	-	52	46	63	57	-	-	63	58	64	59	65	60	64	60	55	50	51	47
4	46	42	49	-	-	-	55	46	63	58	60	57	63	58	65	59	65	59	64	61	55	51	51	48
5	44	43	49	46	-	-	54	49	63	58	60	55	63	58	65	60	65	61	63	62	55	50	51	47
6	46	44	46	45	-	-	56	49	61	58	58	55	64	59	65	60	65	61	61	57	54	50	50	46
7	46	44	47	45	-	-	54	50	62	57	58	56	64	59	65	60	65	62	60	57	54	49	49	46
8	45	43	46	45	-	-	53	50	60	54	59	55	64	59	65	60	64	60	58	54	55	50	49	45
9	44	43	46	45	-	-	55	48	59	53	60	53	64	59	64	60	63	59	57	54	53	49	48	44
10	44	43	48	46	-	-	58	50	59	52	63	58	63	59	64	59	63	60	56	54	53	49	48	44
11	45	44	48	46	-	-	60	53	61	54	63	58	64	59	64	57	64	60	58	53	53	49	49	45
12	44	43	-	-	-	-	62	55	59	54	64	59	64	59	64	59	64	60	60	54	53	50	49	45
13	44	43	-	-	-	-	64	56	58	52	64	60	65	60	64	59	64	60	60	55	53	49	49	45
14	44	41	-	-	-	-	65	58	-	52	65	60	65	60	65	60	65	61	61	56	53	48	49	45
15	45	42	-	-	-	-	66	59	62	-	65	61	65	60	65	60	66	60	59	57	50	49	49	45
16	45	42	-	-	-	-	65	61	63	58	60	60	64	59	66	61	64	61	59	56	54	49	48	45
17	45	41	-	-	58	-	63	59	64	59	63	59	65	59	66	61	63	60	61	55	53	49	49	46
18	45	42	-	-	58	53	62	57	64	60	67	60	65	59	66	61	61	56	61	55	54	49	49	45
19	46	43	-	-	58	52	62	59	65	60	66	62	65	59	65	61	61	55	61	55	52	48	-	47
20	47	42	52	49	60	53	61	57	65	60	63	60	65	60	64	61	62	57	59	57	52	47	49	47
21	47	44	53	49	59	54	60	55	65	60	63	59	65	60	61	59	64	60	59	54	51	47	49	46
22	47	43	52	48	57	54	59	55	64	60	65	61	64	59	62	55	64	62	58	53	50	46	49	47
23	47	44	53	50	-	51	60	53	64	60	65	59	64	59	64	56	65	61	58	54	50	45	50	46
24	48	45	54	50	-	-	61	55	63	61	65	60	64	59	64	58	65	60	59	53	50	46	48	45
25	47	45	55	51	55	-	62	55	64	60	65	60	64	59	63	59	64	61	60	54	51	46	49	45
26	47	47	52	51	50	50	61	55	63	60	65	60	64	59	63	56	65	61	60	55	53	47	49	45
27	48	46	52	50	55	52	62	56	58	56	64	61	65	60	62	58	64	58	58	55	54	49	48	45
28	46	44	52	48	54	52	59	55	60	53	63	59	64	60	62	58	63	58	55	53	54	50	47	45
29	44	42	-	-	54	51	-	-	62	55	63	58	65	59	61	59	63	57	56	53	55	51	48	41
30	44	42	-	-	55	51	-	-	61	58	-	58	64	60	62	55	63	59	57	54	54	51	47	44
31	46	41	-	49	62	58	57	53	-	64	60	62	58	-	58	52	-	46	42	-	-	-	-	
MAX	48												65		66		66		64		57			
MIN	41												58		55		55		52		45			
-No Data.																								

YEAR 1948

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	46	43	47	43	50	45	58	48	-	-	62	53	66	61	63	57	61	55	60	56	54	51	50	46
2	46	43	46	42	50	46	50	49	-	-	63	55	65	61	63	57	61	54	59	54	55	53	51	47
3	44	40	45	41	50	45	51	45	-	-	60	56	64	57	62	56	61	55	59	58	55	54	51	47
4	50	44	41	41	50	45	51	44	-	-	58	53	62	56	62	55	61	56	59	56	54	50	49	46
5	50	48	44	40	49	45	51	43	-	-	58	52	58	55	62	56	61	55	58	56	54	49	47	44
6	51	47	45	41	49	44	51	43	54	-	60	53	59	55	62	56	61	56	59	53	55	50	50	45
7	52	49	46	42	50	44	52	43	53	48	62	54	62	55	62	57	61	57	60	55	53	49	50	47
8	51	46	45	43	48	45	48	45	52	46	63	57	63	56	62	55	61	56	61	56	52	47	51	49
9	48	44	45	42	50	44	50	47	52	46	63	58	64	56	62	54	61	56	60	56	53	47	50	47
10	47	43	45	40	50	45	54	45	56	46	61	56	65	60	61	54	61	56	60	54	55	50	51	47
11	47	43	45	40	50	46	55	46	58	51	61	54	64	60	61	54	61	56	59	55	55	51	51	47
12	47	42	45	41	49	46	56	46	57	52	62	55	65	60	61	53	61	56	60	57	55	50	52	49
13	47	42	45	41	49	45	-	46	58	51	63	55	66	60	61	55	62	57	58	55	54	50	47	44
14	48	42	47	42	48	45	-	-	58	51	63	55	66	61	62	55	60	57	58	56	52	49	46	42
15	47	43	47	45	47	43	-	-	61	51	62	55	67	61	62	55	61	56	59	55	53	49	46	43
16	48	43	50	44	46	43	-	-	63	55	62	56	67	61	61	55	57	56	59	55	53	50	46	43
17	48	43	49	45	48	43	-	-	60	56	63	55	66	61	61	54	57	55	59	53	53	48	46	43
18	49	45	50	47	48	43	-	-	56	53	62	54	66	61	61	56	57	54	58	52	52	48	47	43
19	48	43	51	45	48	44	56	-	54	51	63	56	65	60	61	55	61	53	58	52	52	48	46	43
20	47	42	50	46	48	42	57	49	55	50	63	59	66	60	62	57	60	54	58	52	52	48	46	43
21	47	42	50	46	51	45	54	50	58	50	65	59	66	61	61	57	60	56	58	55	52	47	46	43
22	49	43	52	47	49	47	51	47	62	52	64	59	66	61	58	56	59	55	58	53	52	47	45	42
23	50	45	49	45	49	45	52	46	64	54	64	58	63	60	60	54	59	53	58	52	53	48	43	40
24	51	46	49	44	47	45	53	46	64	56	64	58	62	54	61	-	58	52	58	53	54	50	43	39
25	49	46	50	45	-	-	54	47	65	57	65	58	62	57	61	55	57	51	58	54	53	49	44	40
26	46	43	51	-	51	-	-	47	65	57	65	59	62	56	61	56	58	51	57	49	51	47	44	42
27	45	41	50	46	53	44	-	-	62	56	65	59	62	57	61	56	59	53	55	53	51	46	45	44
28	45	41	50	45	50	45	-	-	56	54	65	59	62	57	62	56	60	53	55	49	46	46	42	
29	45	42	50	45	54	47	-	-	55	51	66	61	63	57	62	55	60	55	54	50	50	46	45	43
30	45	41	-	-	54	46	-	-	55	51	67	62	63	57	61	55	60	54	54	49	50	46	45	42
31	46	41	-	-	57	47	-	-	56	52	-	-	63	57	61	55	-	53	50	-	44	42	-	-
MAX		52									67		67			62		61		55		52		
MIN		40									52		54			51		49		46		39		

-No Data.

YEAR 1949

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	42	45	40	49	45	54	48	56	53	60	53	61	55	60	55	64	58	62	57	57	51	54	50
2	45	41	45	41	48	45	56	50	59	54	61	55	61	55	62	56	64	58	61	55	57	51	53	50
3	42	39	45	41	47	44	52	50	60	52	63	57	60	56	62	56	63	58	60	54	57	51	52	48
4	40	37	45	42	47	43	57	51	60	55	64	58	60	52	62	56	62	57	59	54	57	52	51	47
5	42	38	46	42	48	44	58	51	61	55	65	59	60	55	61	56	62	57	59	54	56	51	52	48
6	44	39	45	41	49	44	58	55	63	56	65	59	61	55	60	56	61	56	58	53	54	51	51	47
7	45	41	45	40	50	45	59	53	61	55	64	58	61	55	60	55	60	56	56	52	54	51	49	48
8	44	41	45	41	50	46	60	52	59	55	64	58	62	56	60	54	61	55	55	50	54	51	52	48
9	41	38	46	43	48	45	61	55	59	52	65	58	62	56	60	55	62	56	55	50	53	50	51	48
10	-	35	46	43	47	45	61	55	62	53	65	58	62	56	60	55	62	57	57	53	53	49	50	46
11	-	-	47	43	-	44	61	55	65	58	65	58	62	56	60	55	61	56	59	53	54	49	48	44
12	-	-	44	40	-	-	61	53	66	60	64	58	62	56	60	55	61	53	60	56	54	49	47	44
13	-	-	44	40	-	-	61	53	66	60	65	58	62	56	60	55	61	56	59	56	54	50	47	42
14	-	-	46	41	49	46	61	54	61	60	65	59	62	56	60	54	61	55	60	56	52	49	47	44
15	-	-	44	42	49	45	60	56	61	58	65	58	62	56	60	55	62	56	60	54	53	48	49	45
16	-	-	46	43	51	46	62	55	61	59	64	58	62	56	60	55	63	58	59	55	54	49	50	46
17	44	41	47	43	50	47	62	57	60	56	62	56	62	56	61	55	62	57	56	53	54	49	50	47
18	44	41	49	44	50	48	61	55	59	53	59	55	61	56	61	56	62	57	52	49	54	49	50	46
19	45	42	49	45	51	46	62	55	58	55	59	54	61	56	61	56	61	57	52	47	54	49	48	45
20	45	41	49	46	52	47	62	57	58	53	58	54	61	55	61	55	61	56	54	48	53	49	46	43
21	45	42	48	44	52	46	63	57	59	53	60	54	61	55	61	55	62	57	55	49	53	48	46	42
22	46	42	49	47	51	47	63	57	61	53	61	55	61	56	61	55	63	58	56	50	52	48	47	43
23	46	43	49	46	48	45	61	59	63	56	62	56	61	56	60	55	63	57	56	51	54	49	48	44
24	42	40	49	45	53	45	61	55	64	58	63	56	61	56	61	55	61	55	55	50	55	50	48	44
25	40	37	51	44	54	47	60	54	65	59	63	57	61	55	61	56	59	55	55	50	55	50	48	44
26	42	38	50	47	54	48	60	53	65	60	62	57	61	55	61	56	59	54	54	50	54	50	47	43
27	43	39	51	46	55	49	59	53	64	60	61	55	61	56	59	56	59	54	55	50	54	50	47	43
28	43	40	51	48	53	48	57	53	62	58	59	55	61	56	60	55	58	53	57	51	54	50	48	43
29	44	40	-	-	55	48	57	52	58	56	60	55	62	56	62	56	60	53	57	52	55	51	47	44
30	45	40	-	-	52	46	58	50	57	51	61	54	61	56	62	56	61	57	58	53	55	51	48	43
31	45	40	-	-	54	47	-	-	59	51	-	-	59	57	63	56	-	57	52	-	47	43	-	-
MAX			51			63		66		65		62		63		64		62		57		54		
MIN			40			48		51		53		52		54		53		47		48		42		
-No Data.																								

YEAR 1950

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	44	42	38	53	47	60	52	56	51	67	60	65	59	61	55	64	56	59	49	53	48	52	45
2	46	42	43	38	52	48	60	54	53	49	65	60	65	59	62	54	64	55	59	49	57	49	46	44
3	44	40	41	39	54	48	57	52	53	47	65	59	64	58	62	55	63	55	58	50	58	54	44	41
4	44	40	41	38	55	49	58	50	54	47	66	58	62	57	59	54	63	55	61	51	59	52	45	40
5	44	40	-	-	54	49	56	51	56	48	63	58	62	56	60	50	63	54	58	54	58	52	48	42
6	45	41	-	-	51	47	56	51	55	49	61	55	63	56	61	50	62	52	59	51	58	51	50	45
7	42	41	-	-	50	43	51	48	56	50	58	50	63	56	61	52	57	55	60	54	58	51	51	49
8	43	40	44	40	51	45	50	46	58	50	59	51	62	56	61	53	59	54	60	53	58	54	52	50
9	42	40	45	40	50	48	51	45	59	51	59	53	62	56	62	52	61	53	60	53	51	50	53	48
10	42	40	45	42	54	47	54	47	61	55	60	55	62	56	62	52	61	53	61	54	55	48	53	47
11	43	40	46	42	50	47	56	48	63	57	58	52	62	56	62	53	62	53	61	56	54	47	52	41
12	43	39	46	41	52	46	54	50	64	58	58	50	62	55	63	54	63	56	62	55	53	47	53	48
13	41	39	45	42	47	45	56	50	63	57	60	53	62	56	63	55	62	56	62	55	52	48	52	47
14	43	38	47	43	50	43	57	49	63	55	61	55	62	56	63	54	62	54	60	55	51	47	53	50
15	41	38	49	45	51	45	58	50	64	55	60	55	62	56	63	54	61	55	59	52	50	46	53	49
16	37	36	50	45	50	48	59	52	64	56	60	54	63	56	64	55	60	55	55	52	50	46	52	47
17	40	36	50	44	54	47	61	53	62	55	60	52	61	55	64	54	59	53	57	55	52	50	52	47
18	40	36	50	45	50	47	62	55	61	55	62	53	62	55	64	55	59	53	60	51	53	50	50	48
19	41	36	50	45	52	46	64	55	62	55	64	56	62	54	64	55	60	52	59	52	53	49	52	48
20	43	39	50	47	51	46	65	56	64	56	65	58	62	55	64	55	63	57	58	51	54	52	52	47
21	47	41	50	45	50	46	65	60	65	58	64	59	62	54	-	55	64	58	58	51	54	50	51	47
22	46	42	51	45	53	46	64	57	64	58	64	58	62	54	-	-	64	57	58	51	55	50	51	47
23	47	43	51	46	49	46	61	56	63	57	61	57	62	54	-	-	64	56	55	51	54	48	50	46
24	44	40	53	47	48	43	61	53	64	58	60	52	63	54	-	-	63	54	56	51	54	47	48	45
25	43	39	54	48	48	43	62	54	64	56	60	52	63	54	-	-	60	55	56	52	54	47	47	45
26	42	38	54	48	48	44	63	57	65	59	59	51	63	55	-	-	61	56	55	51	54	48	46	44
27	40	39	52	48	50	44	63	57	64	59	61	54	63	55	-	-	62	56	53	49	52	48	49	44
28	43	39	53	47	52	44	60	53	63	58	63	55	63	55	-	-	63	56	52	50	52	46	47	45
29	42	38	-	-	52	46	59	52	65	58	64	57	62	54	64	56	59	54	54	51	52	47	50	44
30	42	38	-	-	-	-	56	48	58	53	67	60	64	58	63	55	63	56	59	50	54	50	50	45
31	42	37	-	-	-	-	58	50	-	-	66	60	-	64	55	64	55	-	53	48	-	49	43	-
MAX	47	-	-	-	58	-	65	-	67	-	67	-	65	-	-	-	64	-	62	-	59	-	53	-
MIN	36	-	-	-	43	-	45	-	47	-	50	-	54	-	-	-	52	-	48	-	46	-	40	-
-No Data.																								

YEAR 1951

Table 16a. Daily Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1945-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	49	42	46	39	48	42	55	45	55	47	59	52	63	54	63	53	61	51	59	55	-	-	52	51
2	46	45	43	41	48	41	58	48	55	50	59	51	63	53	63	52	61	51	61	56	-	-	51	49
3	48	45	44	42	46	41	57	48	53	50	61	52	62	54	62	52	62	53	62	53	-	-	-	-
4	50	46	46	44	42	40	59	49	54	48	61	52	63	53	61	51	62	54	61	53	-	-	-	49
5	50	45	44	44	45	40	61	50	53	49	60	50	61	53	61	50	63	54	60	53	-	-	-	-
6	50	44	50	44	47	40	60	50	58	50	60	51	62	52	62	-	63	54	61	52	-	-	-	-
7	49	42	50	45	48	42	61	50	57	51	60	51	62	52	62	53	63	54	60	51	-	-	-	-
8	45	43	50	45	50	43	64	52	60	50	60	51	63	52	63	53	63	56	60	52	-	-	-	-
9	49	44	51	45	50	42	65	53	64	55	61	51	64	53	62	53	64	55	60	54	-	-	-	-
10	47	43	49	45	49	40	65	58	64	58	61	52	64	54	61	52	64	56	57	55	-	-	45	45
11	47	42	49	46	50	40	66	57	62	55	61	53	64	54	61	52	63	57	59	54	-	-	47	45
12	47	42	50	44	53	40	65	56	60	50	62	52	63	53	62	53	62	56	58	56	-	-	47	48
13	48	41	50	44	55	46	64	55	59	51	62	54	62	52	63	53	61	55	58	54	52	51	47	45
14	47	41	50	44	57	48	63	56	60	50	64	55	62	51	62	53	64	56	60	53	53	52	46	45
15	45	42	51	44	56	47	63	53	63	55	63	55	62	51	63	53	65	57	-	52	53	51	46	45
16	45	42	50	43	54	46	60	54	66	57	63	55	63	52	63	53	62	58	-	-	52	50	45	45
17	45	43	47	42	54	44	59	53	65	60	63	55	64	52	63	53	63	57	-	-	51	50	47	44
18	47	42	48	42	55	44	61	51	68	61	61	54	64	53	61	54	64	57	-	-	51	50	46	46
19	47	41	49	42	56	44	62	52	66	60	63	53	64	53	62	53	67	60	-	-	51	50	47	46
20	46	40	48	44	57	46	61	52	66	59	62	54	62	52	64	54	67	61	-	-	52	51	46	45
21	44	38	48	43	57	47	60	51	66	60	61	54	62	51	62	53	66	59	-	-	51	50	46	45
22	39	38	47	42	57	47	61	51	65	59	61	52	62	51	62	53	67	60	-	-	52	50	46	45
23	46	40	48	42	56	46	61	50	65	58	62	52	62	52	60	54	66	59	-	-	50	49	46	45
24	47	42	49	41	57	45	54	51	66	57	62	53	62	52	62	53	63	57	-	-	51	49	47	45
25	46	42	47	42	56	46	58	49	66	60	63	53	63	52	62	53	64	56	-	-	50	49	47	46
26	48	43	47	41	56	47	58	49	67	60	61	54	62	52	63	54	65	56	-	-	50	49	47	47
27	48	44	48	41	57	48	55	49	67	61	65	53	62	52	60	54	64	57	-	-	51	50	47	47
28	48	43	46	42	58	49	56	47	63	59	66	56	62	52	61	53	62	57	-	-	51	50	-	-
29	43	41			53	46	56	45	63	56	66	56	62	51	61	53	61	57	-	-	52	50	-	-
30	43	37			54	44	57	46	60	55	64	55	63	52	60	53	61	59	-	-	52	51	-	-
31	45	38			55	44			60	53			63	53	60	51			-	-			-	-
MAX	50		51		58		66		68		66		64		64		67							
MIN	37		39		40		45		47		50		51				51							
-No Data.																								

YEAR 1952-53 and 1955-57

Table 16b. Monthly Maximum and Minimum Water Temperatures at Squaw Hill (Woodson Bridge), 1952-53 and 1955-57^{1/} 2/

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min																							
1952	44.5	43.7	46.5	45.4	49.6	47	51.9	49.5	56.5	53.3	59.1	55.1	62.7	58.4	62.7	58.4	62.2	58.8	60.3	58.8	54.1	52.3	48.7	47.3	
1953	50.7	49.8	50.6	48.6	53.3	50.8	58.3	55.3	57.3	55.6	60.8	56.9	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	52.3	49.3	52.7	49.5	60.7	55.6	60.7	55.5	60	54.6	60.5	55	60.3	56.5	59.7	56.8	-	-	50.4	49.1	
1956	48.5	47.7	46.6	45.9	49.8	46.9	56.1	53.1	58	54	62	56.6	60.8	55.4	60.6	55.8	60.7	56.9	57	54.3	53.2	51.5	48.3	46.7	
1957	45.5	44.2	50.2	48.9	51.8	49.4	58.2	54.6	59.9	55.6															

-No Data.

1/ Type of thermograph and exact location unknown.

2/ From unpublished USFWS data.

YEAR 1968

Table 16c. Daily Maximum and Minimum Water Temperatures near Woodson Bridge, 1968^{1/ 2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1					59	54.5	62.5	57.5	59	54	57.5	54
2					59	53.5	60	57	58	55	59.5	56
3					59	55	56.5	55.5	58	54	61.5	58
4					59	55	59.5	56	60	56.5	61.5	58
5					59	55	57.5	56	59	55	61.5	56.5
6					59	55	57.5	56	59	56	61	58.5
7					58	53	57	54	59	55	61	58
8					58.5	53	59	54	60	56	58.5	55
9					58.5	53.5	59	54	59	55	61	58
10					58.5	54	59	54	59	55	60.5	57.5
11					58.5	54	59	55	60	55	59	55.5
12					59	55	59	55	59	55	60.5	57
13					59	55	58.5	55	59	55	57	56.5
14					56	52	56	54	59	55	60.5	57.5
15					57	52	55	52	59	55	57	56
16					56.5	53	58	53	60	55	59.5	56
17					56	52	59.5	54	61	56	59.5	56
18					52.5	50.5	59.5	56	61	56	57.5	55
19					55	50.5	59	55.5	61	56	58	55
20					56	51.5	57.5	56.5	61	56	58.5	55
21					55	51.5	57	55	61	56	59	56
22					55	51	58.5	55	61	56	58	55
23					55	51	58.5	55	61	56	58	55
24					55	52	59	55	62	56	59.5	55
25					55	51.5	58	55	61	57	60	57
26					56	52	59	55	61	56	59.5	56
27					56	52	59	55	61	56	59.5	56
28					57	52.5	60.5	55.5	61	56	60	56.5
29					58	51.5	61.5	57	60	56	58	55
30					58	53.5	61.5	57.5	60	55	57	55
31					59	55	61.5	57.5	60	55	58	55.5
MAX						62	62.5	60	62	62	61	57
MIN						52	53	54	54	55	54	50

1/ Thermograph type unknown but located on west bank about $\frac{1}{4}$ mile below the bridge.

2/ From unpublished DWR, Northern District data.

YEAR 1976

Table 16d. Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1976^{1/ 2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1								69	63	62	58	65
2								70	66	72	58	64
3								68	65	72	67	65
4								70	64	72	67	61
5								69	63	70	67	
6								-	66	69	65	
7								-	-	67	63	
8								-	-	68	62	
9								-	-	70	65	
10								-	-	70	67	
11								-	-	68	68	
12								64	68	68	66	
13								62	60	69	65	
14								60	58	67	65	
15								60	59	66	64	
16								60	59	66	62	
17								60	59	66	62	
18								61	60	67	63	
19								59	58	68	65	
20								60	59	68	65	
21								61	60	67	62	
22								61	60	66	63	
23								66	60	60	65	62
24								66	60	61	60	66
25								67	62	60	59	66
26								68	62	61	60	67
27								68	64	60	57	67
28								69	64	62	57	67
29								68	64	63	58	66
30								69	64	63	58	66
31								68	63	63	58	
MAX											72	
MIN											58	
-No Data.												

1/ Thermograph type unknown, located at river mile 218.2.

2/ From unpublished DWR, Northern District data.

YEAR 1986

Table 16e. Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1986-89^{1/2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1					56	55	65	61	62	57	63	60
2					55	53	66	62	63	57	63	60
3					53	52	65	62	63	58	63	60
4					52	51	64	61	63	59	63	60
5					52	51	63	60	62	58	63	61
6					52	50	63	60	62	57	63	61
7					55	51	64	60	62	58	63	61
8					56	53	64	60	62	58	63	60
9					58	55	64	60	63	58	62	60
10					57	55	64	60	64	58	63	60
11					57	55	63	60	64	60	63	60
12					57	55	63	60	64	60	63	60
13					58	54	64	59	64	60	63	60
14					57	53	63	58	63	60	63	60
15					57	52	63	58	63	60	62	60
16					59	53	62	57	62	59	62	59
17					54	51	60	55	62	57	62	59
18					55	52	61	57	62	57	61	58
19					58	54	61	57	61	58	62	59
20					60	56	60	57	62	56	61	58
21					62	59	59	56	63	57	62	59
22					62	60	59	54	63	58	62	59
23					61	58	59	56	64	58	63	59
24					58	57	61	56	64	58	62	58
25					57	55	62	58	64	58	62	59
26					56	54	63	60	61	57	61	59
27					57	55	63	61	60	59	61	58
28					56	55	65	61	62	56	61	59
29					56	54	64	62	62	58	61	59
30					56	54	65	62	62	57	61	59
31					64	62			62	59	61	60
MAX					65		66		64		64	
MIN					50		56		57		54	
								58		54		48
										50		47

^{1/} Palmer thermograph located on west bank about 1/4 mile below bridge.^{2/} From unpublished DWR, Northern District data.

YEAR 1987

Table 16e. Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	48	48	48	47	50	48	59	57	54	53	56	56	60	54	61	55	64	61	64	60	57	56	51	49	
2	48	48	47	46	50	49	59	57	54	53	57	56	60	54	61	56	63	61	64	60	56	55	52	51	
3	48	48	49	46	52	50	58	57	54	53	57	56	60	54	61	56	64	60	65	61	57	55	54	52	
4	48	47	49	46	51	50	57	56	55	53	57	57	60	54	62	56	62	58	65	61	58	55	53	52	
5	48	46	50	47	51	50	57	56	56	55	57	57	60	54	62	56	61	58	65	61	57	55	53	52	
6	48	47	51	48	53	50	57	55	56	55	58	58	60	54	62	56	60	57	64	60	57	56	52	50	
7	48	46	52	48	54	52	57	56	56	56	59	58	61	55	63	57	60	57	63	60	58	56	50	49	
8	46	45	51	49	54	52	58	56	56	56	59	58	61	55	63	57	61	58	63	59	57	55	49	48	
9	47	45	50	49	54	52	58	57	56	55	59	58	61	55	63	57	61	58	62	59	58	56	50	48	
10	47	45	50	49	53	52	58	57	56	55	59	58	61	55	63	57	61	57	61	58	57	55	52	50	
11	46	45	51	49	54	53	57	56	56	56	59	58	61	55	63	57	62	58	61	58	57	55	50	48	
12	45	45	50	49	53	53	57	55	56	56	59	58	61	55	63	57	61	58	60	58	56	55	46	44	
13	46	44	51	50	53	53	57	55	56	56	60	58	62	55	63	57	62	59	61	57	56	55	44	43	
14	47	44	50	48	53	52	57	55	56	56	59	58	62	56	62	58	63	59	59	56	54	43	42		
15	-	-	50	47	53	52	58	56	56	56	58	58	62	56	63	57	64	60	59	56	54	52	43	43	
16	44	42	50	47	53	52	58	56	56	56	58	57	61	55	63	58	64	60	59	55	54	52	44	43	
17	45	42	50	47	53	52	55	54	56	56	58	58	56	52	64	58	63	59	59	55	54	53	47	45	
18	46	43	50	48	53	53	54	53	56	56	58	58	57	52	64	58	64	59	58	54	55	53	46	44	
19	47	44	50	48	53	52	54	53	56	56	58	58	58	53	64	59	64	60	58	54	55	53	47	45	
20	47	44	50	48	53	52	54	53	56	56	58	58	59	53	63	59	65	60	57	54	54	53	46	44	
21	46	44	50	48	52	51	55	53	56	56	58	58	58	53	64	59	66	60	57	54	54	53	47	46	
22	46	45	50	47	52	50	54	53	56	56	60	54	58	53	64	59	65	60	57	55	53	51	48	46	
23	46	45	48	47	52	51	54	52	56	56	60	54	60	53	64	59	65	61	57	55	53	51	46	44	
24	46	45	48	46	53	51	54	53	56	56	61	54	60	53	65	59	64	61	58	55	52	50	44	42	
25	47	45	48	45	54	52	55	53	56	56	62	55	60	54	66	59	64	60	58	55	51	49	43	41	
26	48	45	48	45	55	53	55	54	56	56	62	56	60	54	66	60	64	60	59	56	50	48	43	41	
27	49	46	49	46	56	54	55	54	56	56	62	56	60	54	65	60	64	60	59	56	50	47	42	41	
28	49	48	50	47	56	55	55	54	56	56	60	55	61	54	64	60	64	60	59	57	50	47	42	41	
29	48	46			57	55	55	54	56	56	60	54	60	55	64	60	64	60	58	57	49	47	41	40	
30	49	47			58	55	54	53	56	56	60	54	60	55	64	60	64	60	58	56	49	48	42	40	
31	48	47			59	57			56	56			61	55	65	61			58	56			42	40	
	MAX				52		59		59		56		62		62		66		66		65		58		54
	MIN				45		48		52		53		54		52		55		57		54		47		40

-No Data.

YEAR 1988

Table 16e. Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	42	40	45	44	52	50	55	50	56	51	58	55	60	54	62	57	67	63	64	60	58	55	51	49
2	42	41	45	43	53	50	55	51	58	52	60	54	61	55	63	57	68	64	64	60	57	56	51	49
3	42	41	45	42	52	50	53	51	58	53	61	55	62	56	63	57	68	64	63	59	57	56	51	49
4	42	41	46	42	53	49	55	51	57	52	60	55	63	56	63	57	68	64	63	59	57	56	51	49
5	44	42	46	43	52	50	55	50	56	51	56	53	61	56	63	57	68	64	62	60	58	56	52	49
6	46	44	46	43	54	50	56	50	54	51	55	53	61	55	63	57	67	63	63	60	58	56	52	50
7	45	44	47	44	54	50	55	52	52	50	54	52	61	55	61	56	66	62	63	59	56	54	53	51
8	45	45	49	46	54	50	55	50	55	50	54	52	61	54	63	56	66	61	63	59	55	53	53	50
9	46	45	50	47	53	51	56	50	56	52	55	52	62	55	64	58	65	62	63	59	53	52	53	51
10	47	46	52	48	51	49	57	51	58	52	57	52	63	56	64	58	66	61	62	59	55	53	52	50
11	47	45	52	49	50	47	57	51	60	53	60	54	64	57	64	58	65	61	62	59	55	53	53	50
12	46	43	51	49	51	47	57	52	60	55	61	55	62	57	63	58	64	61	62	58	55	54	52	50
13	45	43	51	49	51	47	54	51	60	54	63	56	62	56	63	57	64	61	60	58	54	53	53	50
14	46	44	51	48	52	48	53	50	62	55	63	58	62	56	63	57	64	61	61	58	54	52	52	49
15	46	45	51	48	52	48	54	49	63	56	64	59	63	57	62	56	64	61	62	58	54	52	49	47
16	46	44	50	48	52	48	55	52	60	56	64	59	63	57	64	57	64	61	64	60	53	52	49	47
17	44	43	50	47	53	49	54	51	60	55	63	58	64	58	65	58	64	61	64	59	53	51	50	47
18	44	42	50	47	54	50	55	51	62	55	64	58	65	58	66	59	63	60	64	59	53	50	50	48
19	44	42	51	47	55	51	51	49	64	56	65	59	65	58	66	59	62	59	64	60	54	50	50	49
20	44	42	51	47	55	51	52	49	64	58	65	59	66	58	66	60	61	59	63	60	54	52	50	49
21	46	42	52	48	55	52	55	50	65	59	64	58	65	58	66	61	62	58	62	59	52	51	49	48
22	46	44	53	49	55	52	53	51	63	59	63	58	65	58	66	62	63	59	62	58	53	52	48	46
23	48	44	52	50	55	52	55	50	63	58	63	57	64	58	67	62	63	60	61	57	53	50	47	45
24	48	46	52	48	55	51	56	51	63	58	64	57	65	58	67	62	63	60	60	57	50	48	45	44
25	48	45	52	49	56	52	57	52	64	58	65	58	63	58	67	62	63	60	60	56	48	48	44	43
26	47	45	53	49	57	54	59	53	62	58	63	58	63	58	67	63	63	60	60	56	49	48	44	42
27	48	45	52	49	53	50	59	54	63	58	62	57	63	58	67	63	63	59	59	56	50	47	43	41
28	47	46	53	50	53	49	58	54	61	57	61	56	64	58	67	63	64	60	58	56	51	49	43	41
29	47	46	52	50	53	49	57	51	60	54	59	53	64	58	67	63	64	60	58	55	52	49	44	42
30	46	45			53	49	57	51	60	54	59	53	64	58	67	63	64	60	58	54	51	49	43	43
31	45	43			54	50			58	54			62	58	67	63			58	54			44	43
MAX	48		53		57		59		65		65		66		67		68		64		59		53	
MIN	40		42		47		49		50		52		54		56		58		54		47		41	

YEAR 1989

Table 16e. Daily Maximum and Minimum Water Temperatures at Woodson Bridge, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	45	42	50	47	50	48	53	51	58	53	60	52	57	50	58	52	62	57	62	59	55	51	53	51
2	45	43	47	45	50	47	52	50	58	52	60	53	58	50	58	52	62	57	62	59	55	52	53	52
3	46	44	45	44	50	46	54	49	58	53	60	53	58	51	59	52	62	57	60	58	56	52	53	52
4	44	44	45	44	47	46	57	50	61	55	57	53	59	52	60	53	62	57	60	56	56	53	53	52
5	45	43	41	39	46	46	59	53	61	56	56	52	60	52	60	53	62	57	60	56	56	54	54	53
6	43	41	40	38	48	46	61	55	60	57	57	52	60	52	60	53	61	57	60	56	56	54	53	52
7	43	41	41	38	51	48	63	57	59	55	57	52	60	53	60	54	61	57	60	56	55	52	52	51
8	43	42	43	39	53	51	64	59	59	55	60	53	61	54	60	54	61	57	60	57	55	52	51	51
9	43	43	43	43	53	52	62	59	54	51	60	54	61	54	61	54	61	57	61	57	56	52	52	51
10	45	43	45	43	52	52	62	58	53	49	60	53	61	54	60	54	61	57	62	58	56	52	51	50
11	44	42	48	44	54	52	62	58	54	48	59	53	61	54	60	54	61	57	62	58	56	53	50	48
12	44	42	49	45	55	52	61	57	57	50	59	53	60	54	60	53	62	58	62	58	56	54	49	47
13	44	42	49	45	54	50	62	56	57	52	60	53	61	54	60	54	61	57	61	58	56	53	48	47
14	45	42	49	45	52	49	62	57	57	50	60	53	60	53	61	54	61	57	60	57	55	53	49	48
15	45	43	48	45	51	47	63	57	57	50	58	54	60	53	61	55	61	57	60	56	55	53	49	48
16	46	43	50	47	51	49	63	58	58	51	57	51	60	53	60	54	60	57	60	56	56	53	50	48
17	47	44	51	48	50	48	63	59	58	51	58	51	61	54	60	54	58	56	60	56	56	53	48	48
18	48	45	49	49	48	47	64	59	57	51	59	51	62	56	60	54	57	55	60	56	56	57	54	48
19	48	45	51	49	50	48	64	59	57	51	58	52	62	55	60	54	61	55	60	56	56	53	48	47
20	49	46	52	48	54	48	63	59	58	53	57	51	60	54	60	55	62	58	58	56	57	52	48	46
21	48	46	52	50	54	51	60	57	56	50	58	51	60	55	62	54	64	59	56	55	56	53	47	46
22	48	46	52	51	55	51	57	54	56	50	60	52	60	54	61	57	64	60	55	55	55	53	47	46
23	48	45	52	50	53	51	54	51	55	49	61	54	60	52	61	56	64	60	56	54	53	47	46	
24	46	43	51	48	53	51	51	48	54	48	60	53	59	52	61	56	64	60	55	52	55	54	47	46
25	47	44	50	48	53	49	51	47	55	48	60	53	59	52	62	57	64	60	54	51	53	47	46	
26	47	45	52	48	50	47	53	48	57	50	59	53	59	52	62	56	62	60	54	52	53	51	47	46
27	48	45	53	49	51	47	56	50	58	51	58	52	59	52	62	56	63	59	56	53	52	50	47	46
28	48	45	52	48	53	49	57	52	55	50	55	51	59	53	63	57	63	59	55	52	52	50	49	46
29	50	46			54	49	57	53	56	50	53	49	59	52	62	58	62	60	54	51	51	50	48	46
30	50	46			55	49	56	53	57	50	55	50	59	53	62	57	62	59	54	51	52	51	49	47
31	50	47			55	51			59	51			59	53	62	57			54	51			48	46
MAX	50		53		55		64		61		61		62		63		64		62		57		53	
MIN	41		38		46		47		48		49		50		52		55		56		50		46	

-No Data.

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	18	1987	17.0	62.6	18.0	64.4	16.0	60.8
9	19	1987	17.0	62.6	18.0	64.4	16.0	60.8
9	20	1987	17.0	62.6	18.5	65.3	16.5	61.7
9	21	1987	17.5	63.5	18.5	65.3	16.5	61.7
9	22	1987	17.5	63.5	19.0	66.2	16.5	61.7
9	23	1987	17.5	63.5	19.0	66.2	16.5	61.7
9	24	1987	18.0	64.4	19.0	66.2	17.0	62.6
9	25	1987	17.5	63.5	18.5	65.3	17.0	62.6
9	26	1987	17.0	62.6	18.5	65.3	16.5	61.7
9	27	1987	17.0	62.6	18.0	64.4	16.5	61.7
9	28	1987	17.0	62.6	18.0	64.4	16.0	60.8
9	29	1987	17.0	62.6	18.0	64.4	16.5	61.7
9	30	1987	17.0	62.6	18.0	64.4	16.5	61.7
10	1	1987	17.0	62.6	18.0	64.4	16.5	61.7
10	2	1987	17.0	62.6	18.5	65.3	16.5	61.7
10	3	1987	17.5	63.5	18.5	65.3	16.5	61.7
10	4	1987	17.5	63.5	18.5	65.3	17.0	62.6
10	5	1987	17.5	63.5	18.5	65.3	16.5	61.7
10	6	1987	17.0	62.6	18.0	64.4	16.5	61.7
10	7	1987	17.0	62.6	18.0	64.4	16.5	61.7
10	8	1987	17.0	62.6	18.0	64.4	16.5	61.7
10	9	1987	16.5	61.7	17.5	63.5	16.5	61.7
10	10	1987	16.5	61.7	17.5	63.5	16.0	60.8
10	11	1987	16.0	60.8	17.0	62.6	16.0	60.8
10	12	1987	16.0	60.8	16.5	61.7	15.5	59.9
10	13	1987	15.5	59.9	16.5	61.7	15.5	59.9
10	14	1987	16.0	60.8	17.0	62.6	15.0	59.0
10	15	1987	15.5	59.9	16.0	60.8	15.0	59.0
10	16	1987	15.0	59.0	16.0	60.8	14.5	58.1
10	17	1987	15.0	59.0	16.0	60.8	14.5	58.1
10	18	1987	15.0	59.0	16.0	60.8	14.0	57.2
10	19	1987	14.5	58.1	16.0	60.8	14.0	57.2
10	20	1987	14.5	58.1	15.5	59.9	14.0	57.2
10	21	1987	14.5	58.1	15.0	59.0	13.5	56.3
10	22	1987	14.5	58.1	15.0	59.0	14.0	57.2
10	23	1987	14.5	58.1	15.0	59.0	14.0	57.2
10	24	1987	14.5	58.1	15.0	59.0	14.5	58.1
10	25	1987	14.5	58.1	15.5	59.9	14.5	58.1
10	26	1987	15.0	59.0	15.5	59.9	14.5	58.1
10	27	1987	15.0	59.0	16.0	60.8	14.5	58.1
10	28	1987	15.0	59.0	15.5	59.9	14.5	58.1
10	29	1987	15.0	59.0	15.5	59.9	15.0	59.0
10	30	1987	15.0	59.0	15.5	59.9	15.0	59.0
10	31	1987	14.5	58.1	15.0	59.0	14.5	58.1

1/ Omnidata DP112 thermograph located on west bank about 1/4 mile below bridge.

2/ Unpublished data collected by DWR, Northern District.

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	1	1987	14.0	57.2	15.0	59.0	14.0	57.2
11	2	1987	14.0	57.2	14.5	58.1	13.5	56.3
11	3	1987	13.5	56.3	14.0	57.2	13.0	55.4
11	4	1987	13.5	56.3	14.0	57.2	13.0	55.4
11	5	1987	13.5	56.3	14.5	58.1	13.0	55.4
11	6	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	7	1987	14.0	57.2	14.0	57.2	14.0	57.2
11	8	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	9	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	10	1987	14.0	57.2	14.5	58.1	14.0	57.2
11	11	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	12	1987	13.5	56.3	14.0	57.2	13.0	55.4
11	13	1987	13.0	55.4	14.0	57.2	13.0	55.4
11	14	1987	13.5	56.3	13.5	56.3	13.5	56.3
11	15	1987	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	17	1987	12.0	53.6	12.5	54.5	12.0	53.6
11	18	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	19	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	20	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	21	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	22	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	23	1987	12.0	53.6	12.5	54.5	12.0	53.6
11	24	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	25	1987	11.5	52.7	12.0	53.6	11.5	52.7
11	26	1987	11.5	52.7	12.0	53.6	11.0	51.8
11	27	1987	11.0	51.8	11.5	52.7	10.5	50.9
11	28	1987	10.5	50.9	11.0	51.8	10.5	50.9
11	29	1987	10.5	50.9	11.0	51.8	10.5	50.9
11	30	1987	10.5	50.9	11.0	51.8	10.5	50.9
12	1	1987	10.5	50.9	11.0	51.8	10.5	50.9
12	2	1987	10.5	50.9	11.5	52.7	10.5	50.9
12	3	1987	11.5	52.7	12.0	53.6	11.5	52.7
12	4	1987	12.0	53.6	12.5	54.5	12.0	53.6
12	5	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	6	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	7	1987	12.0	53.6	12.5	54.5	12.0	53.6
12	8	1987	11.5	52.7	12.0	53.6	11.5	52.7
12	9	1987	10.5	50.9	11.5	52.7	10.5	50.9
12	10	1987	10.5	50.9	11.0	51.8	10.5	50.9
12	11	1987	11.0	51.8	11.5	52.7	11.0	51.8
12	12	1987	11.0	51.8	11.5	52.7	10.0	50.0
12	13	1987	9.0	48.2	10.0	50.0	8.5	47.3
12	14	1987	8.0	46.4	8.5	47.3	7.5	45.5
12	15	1987	7.5	45.5	8.0	46.4	7.5	45.5
12	16	1987	8.0	46.4	8.0	46.4	8.0	46.4

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	17	1987	8.0	46.4	8.5	47.3	8.0	46.4
12	18	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	19	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	20	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	21	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	22	1987	9.0	48.2	9.5	49.1	9.0	48.2
12	23	1987	9.5	49.1	10.0	50.0	9.5	49.1
12	24	1987	9.0	48.2	9.5	49.1	8.5	47.3
12	25	1987	7.5	45.5	9.0	48.2	7.5	45.5
12	26	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	27	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	28	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	29	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	30	1987	6.5	43.7	7.0	44.6	6.5	43.7
12	31	1987	6.5	43.7	7.0	44.6	6.5	43.7

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1988	6.5	43.7	7.0	44.6	6.5	43.7
1	2	1988	6.5	43.7	7.0	44.6	6.5	43.7
1	3	1988	7.0	44.6	7.5	45.5	7.0	44.6
1	4	1988	7.0	44.6	7.5	45.5	6.5	43.7
1	5	1988	6.5	43.7	7.0	44.6	6.5	43.7
1	6	1988	7.0	44.6	8.0	46.4	6.5	43.7
1	7	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	8	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	9	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	10	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	11	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	12	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	13	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	14	1988	7.5	45.5	8.0	46.4	7.5	45.5
1	15	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	16	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	17	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	18	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	19	1988	7.0	44.6	8.0	46.4	7.0	44.6
1	20	1988	7.0	44.6	8.0	46.4	6.5	43.7
1	21	1988	7.5	45.5	8.0	46.4	7.0	44.6
1	22	1988	7.5	45.5	8.5	47.3	7.0	44.6
1	23	1988	8.0	46.4	9.0	48.2	7.5	45.5
1	24	1988	8.5	47.3	10.0	50.0	8.0	46.4
1	25	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	26	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	27	1988	8.5	47.3	9.5	49.1	8.5	47.3
1	28	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	29	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	30	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	31	1988	9.0	48.2	9.5	49.1	8.5	47.3
2	1	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	2	1988	8.0	46.4	9.0	48.2	8.0	46.4
2	3	1988	8.0	46.4	8.5	47.3	7.5	45.5
2	4	1988	7.5	45.5	8.5	47.3	7.0	44.6
2	5	1988	8.0	46.4	8.5	47.3	7.0	44.6
2	6	1988	8.0	46.4	8.5	47.3	7.5	45.5
2	7	1988	8.0	46.4	9.0	48.2	7.5	45.5
2	8	1988	8.5	47.3	9.5	49.1	8.0	46.4
2	9	1988	9.5	49.1	10.5	50.9	9.0	48.2
2	10	1988	10.0	50.0	11.0	51.8	10.0	50.0
2	11	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	12	1988	11.0	51.8	12.0	53.6	10.5	50.9
2	13	1988	11.0	51.8	12.0	53.6	10.5	50.9
2	14	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	15	1988	10.5	50.9	11.0	51.8	10.0	50.0

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	16	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	17	1988	10.5	50.9	11.0	51.8	10.0	50.0
2	18	1988	10.0	50.0	10.5	50.9	9.5	49.1
2	19	1988	10.0	50.0	10.5	50.9	9.5	49.1
2	20	1988	10.0	50.0	11.0	51.8	9.5	49.1
2	21	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	22	1988	11.0	51.8	12.0	53.6	10.5	50.9
2	23	1988	11.0	51.8	12.0	53.6	10.5	50.9
2	24	1988	11.5	52.7	12.0	53.6	11.0	51.8
2	25	1988	11.5	52.7	12.0	53.6	11.0	51.8
2	26	1988	11.5	52.7	12.0	53.6	11.0	51.8
2	27	1988	11.5	52.7	12.0	53.6	11.0	51.8
2	28	1988	11.5	52.7	12.0	53.6	11.5	52.7
2	29	1988	12.0	53.6	12.5	54.5	11.5	52.7
3	1	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	2	1988	11.5	52.7	12.0	53.6	11.5	52.7
3	3	1988	11.5	52.7	12.5	54.5	11.0	51.8
3	4	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	5	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	6	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	7	1988	12.0	53.6	13.0	55.4	11.5	52.7
3	8	1988	12.0	53.6	12.5	54.5	12.0	53.6
3	9	1988	12.0	53.6	13.0	55.4	12.0	53.6
3	10	1988	12.0	53.6	13.0	55.4	12.0	53.6
3	11	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	12	1988	11.0	51.8	11.5	52.7	10.5	50.9
3	13	1988	10.5	50.9	11.5	52.7	10.5	50.9
3	14	1988	11.0	51.8	11.5	52.7	10.5	50.9
3	15	1988	11.0	51.8	11.5	52.7	10.5	50.9
3	16	1988	11.0	51.8	12.0	53.6	11.0	51.8
3	17	1988	11.0	51.8	12.0	53.6	11.0	51.8
5	20	1988	14.5	58.1	15.5	59.9	13.5	56.3
5	21	1988	14.5	58.1	16.0	60.8	14.5	58.1
5	22	1988	15.0	59.0	16.0	60.8	14.5	58.1
5	23	1988	15.5	59.9	16.0	60.8	15.0	59.0
5	24	1988	15.0	59.0	16.0	60.8	14.5	58.1
5	25	1988	15.0	59.0	16.0	60.8	14.5	58.1
5	26	1988	15.0	59.0	16.0	60.8	15.0	59.0
5	27	1988	15.0	59.0	16.0	60.8	15.0	59.0
5	28	1988	15.0	59.0	16.0	60.8	15.0	59.0
5	29	1988	15.0	59.0	16.0	60.8	14.5	58.1
5	30	1988	14.0	57.2	15.0	59.0	13.5	56.3
5	31	1988	14.0	57.2	15.0	59.0	13.0	55.4
6	1	1988	13.5	56.3	14.5	58.1	13.5	56.3
6	2	1988	13.5	56.3	14.5	58.1	13.5	56.3
6	3	1988	14.0	57.2	15.0	59.0	13.5	56.3

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
6	4	1988	15.0	59.0	16.0	60.8	14.5	58.1
6	5	1988	15.0	59.0	16.0	60.8	14.5	58.1
6	6	1988	14.0	57.2	15.0	59.0	14.0	57.2
6	7	1988	13.5	56.3	14.5	58.1	13.5	56.3
6	8	1988	13.0	55.4	14.0	57.2	13.0	55.4
6	9	1988	13.0	55.4	13.5	56.3	12.5	54.5
6	10	1988	13.5	56.3	14.5	58.1	13.0	55.4
6	11	1988	14.0	57.2	15.5	59.9	14.0	57.2
6	12	1988	14.5	58.1	16.0	60.8	14.5	58.1
6	13	1988	15.0	59.0	16.0	60.8	15.0	59.0
6	14	1988	15.5	59.9	16.5	61.7	15.5	59.9
6	15	1988	16.0	60.8	17.0	62.6	15.5	59.9
6	16	1988	16.0	60.8	16.5	61.7	15.5	59.9
6	17	1988	16.0	60.8	16.5	61.7	15.5	59.9
6	18	1988	16.0	60.8	17.0	62.6	15.5	59.9
6	19	1988	16.0	60.8	17.0	62.6	15.5	59.9
6	20	1988	16.5	61.7	17.5	63.5	16.0	60.8
6	21	1988	16.0	60.8	17.0	62.6	16.0	60.8
6	22	1988	16.0	60.8	17.0	62.6	15.5	59.9
6	23	1988	16.0	60.8	17.0	62.6	15.5	59.9
6	24	1988	16.5	61.7	17.5	63.5	15.5	59.9
6	25	1988	16.5	61.7	17.5	63.5	16.0	60.8
6	26	1988	16.5	61.7	17.5	63.5	16.0	60.8
6	27	1988	16.0	60.8	17.0	62.6	16.0	60.8
6	28	1988	16.0	60.8	16.5	61.7	15.5	59.9
6	29	1988	15.5	59.9	16.0	60.8	15.0	59.0
6	30	1988	15.0	59.0	16.0	60.8	14.5	58.1
7	1	1988	15.0	59.0	16.0	60.8	14.0	57.2
7	2	1988	15.5	59.9	16.5	61.7	14.5	58.1
7	3	1988	15.5	59.9	16.5	61.7	15.0	59.0
7	4	1988	16.0	60.8	17.0	62.6	15.5	59.9
7	5	1988	15.5	59.9	16.5	61.7	15.5	59.9
7	6	1988	15.5	59.9	16.5	61.7	15.0	59.0
7	7	1988	15.5	59.9	16.5	61.7	14.5	58.1
7	8	1988	15.5	59.9	16.5	61.7	14.5	58.1
7	9	1988	15.5	59.9	16.5	61.7	15.0	59.0
7	11	1988	16.0	60.8	17.5	63.5	15.5	59.9
7	12	1988	16.0	60.8	17.0	62.6	15.5	59.9
7	13	1988	16.0	60.8	17.0	62.6	15.5	59.9
7	14	1988	16.0	60.8	17.0	62.6	15.5	59.9
7	15	1988	16.5	61.7	17.5	63.5	16.0	60.8
7	16	1988	16.5	61.7	17.5	63.5	16.0	60.8
7	17	1988	16.5	61.7	17.5	63.5	16.0	60.8
7	18	1988	16.5	61.7	18.0	64.4	16.0	60.8
7	20	1988	17.0	62.6	18.0	64.4	16.0	60.8
7	21	1988	16.5	61.7	17.5	63.5	16.0	60.8

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
7	22	1988	17.0	62.6	18.0	64.4	16.0	60.8
9	23	1988	16.0	60.8	17.0	62.6	16.0	60.8
9	24	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	25	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	26	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	27	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	28	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	29	1988	16.5	61.7	17.0	62.6	16.5	61.7
9	30	1988	16.5	61.7	17.5	63.5	16.5	61.7
10	1	1988	17.0	62.6	17.5	63.5	16.5	61.7
10	2	1988	17.0	62.6	17.5	63.5	16.5	61.7
10	3	1988	16.5	61.7	17.5	63.5	16.5	61.7
10	4	1988	16.5	61.7	17.0	62.6	16.5	61.7
10	5	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	6	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	7	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	8	1988	16.5	61.7	17.0	62.6	16.5	61.7
10	9	1988	16.5	61.7	17.0	62.6	16.5	61.7
10	10	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	11	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	12	1988	16.0	60.8	17.0	62.6	16.0	60.8
10	13	1988	16.0	60.8	16.5	61.7	16.0	60.8
10	14	1988	16.0	60.8	16.5	61.7	15.5	59.9
10	15	1988	15.5	59.9	16.5	61.7	15.5	59.9
10	16	1988	15.5	59.9	16.5	61.7	15.5	59.9
10	17	1988	17.0	62.6	18.0	64.4	16.0	60.8
10	18	1988	17.0	62.6	17.5	63.5	16.0	60.8
10	19	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	20	1988	16.0	60.8	17.0	62.6	15.5	59.9
10	21	1988	16.0	60.8	17.0	62.6	15.5	59.9
10	22	1988	16.0	60.8	17.0	62.6	15.0	59.0
10	23	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	24	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	25	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	26	1988	15.5	59.9	16.0	60.8	15.0	59.0
10	27	1988	15.0	59.0	15.5	59.9	14.5	58.1
10	28	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	29	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	30	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	31	1988	15.0	59.0	15.5	59.9	14.5	58.1
11	1	1988	14.5	58.1	15.0	59.0	14.5	58.1
11	2	1988	14.5	58.1	15.0	59.0	14.5	58.1
11	3	1988	15.0	59.0	15.5	59.9	14.5	58.1
11	4	1988	15.0	59.0	16.0	60.8	14.5	58.1
11	5	1988	15.0	59.0	15.5	59.9	14.5	58.1
11	6	1988	14.0	57.2	15.0	59.0	14.0	57.2

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	7	1988	14.0	57.2	14.5	58.1	14.0	57.2
11	8	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	9	1988	13.5	56.3	14.0	57.2	13.0	55.4
11	10	1988	13.5	56.3	14.5	58.1	13.5	56.3
11	11	1988	13.5	56.3	14.5	58.1	13.5	56.3
11	12	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	13	1988	13.0	55.4	14.0	57.2	13.0	55.4
11	14	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	15	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	16	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	17	1988	12.0	53.6	13.0	55.4	11.5	52.7
11	19	1988	13.0	55.4	13.5	56.3	12.5	54.5
11	20	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	21	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	22	1988	12.5	54.5	13.5	56.3	12.0	53.6
11	23	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	24	1988	11.0	51.8	11.5	52.7	11.0	51.8
11	25	1988	11.0	51.8	11.5	52.7	11.0	51.8
11	26	1988	11.0	51.8	12.0	53.6	11.0	51.8
11	27	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	28	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	29	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	30	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	1	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	2	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	3	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	4	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	5	1988	12.5	54.5	13.0	55.4	12.5	54.5
12	6	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	7	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	8	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	9	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	10	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	11	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	12	1988	12.5	54.5	13.0	55.4	12.0	53.6
12	13	1988	12.0	53.6	13.0	55.4	11.5	52.7
12	14	1988	10.5	50.9	11.5	52.7	10.5	50.9
12	15	1988	10.5	50.9	11.0	51.8	10.0	50.0
12	16	1988	10.5	50.9	11.5	52.7	10.0	50.0
12	17	1988	10.5	50.9	11.5	52.7	10.5	50.9
12	18	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	19	1988	11.0	51.8	11.5	52.7	11.0	51.8
12	20	1988	10.5	50.9	11.0	51.8	10.5	50.9
12	21	1988	10.0	50.0	10.5	50.9	10.0	50.0
12	22	1988	9.5	49.1	10.0	50.0	9.5	49.1
12	23	1988	8.5	47.3	9.5	49.1	8.5	47.3

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	24	1988	8.0	46.4	8.5	47.3	8.0	46.4
12	25	1988	8.0	46.4	8.5	47.3	7.5	45.5
12	26	1988	7.5	45.5	8.5	47.3	7.0	44.6
12	27	1988	7.5	45.5	8.0	46.4	7.0	44.6
12	28	1988	7.5	45.5	8.5	47.3	7.5	45.5
12	29	1988	7.5	45.5	8.0	46.4	7.5	45.5
12	30	1988	7.5	45.5	8.0	46.4	7.5	45.5
12	31	1988	7.5	45.5	8.5	47.3	7.0	44.6

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	2	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	3	1989	8.5	47.3	9.0	48.2	8.5	47.3
1	4	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	5	1989	7.0	44.6	7.5	45.5	6.5	43.7
1	6	1989	7.0	44.6	7.5	45.5	6.5	43.7
1	7	1989	7.5	45.5	8.0	46.4	7.5	45.5
1	8	1989	7.5	45.5	8.0	46.4	7.5	45.5
1	9	1989	8.0	46.4	8.5	47.3	7.5	45.5
1	10	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	11	1989	7.0	44.6	8.0	46.4	6.5	43.7
1	12	1989	7.0	44.6	8.0	46.4	7.0	44.6
1	13	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	14	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	15	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	16	1989	8.5	47.3	9.0	48.2	8.0	46.4
1	17	1989	9.0	48.2	9.5	49.1	8.5	47.3
1	18	1989	9.0	48.2	10.0	50.0	9.0	48.2
1	19	1989	9.5	49.1	10.0	50.0	9.0	48.2
1	20	1989	9.5	49.1	10.0	50.0	9.0	48.2
1	21	1989	9.5	49.1	10.0	50.0	9.5	49.1
1	22	1989	9.0	48.2	9.5	49.1	8.5	47.3
1	23	1989	8.0	46.4	8.5	47.3	7.5	45.5
1	24	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	26	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	27	1989	9.0	48.2	10.0	50.0	8.5	47.3
1	28	1989	9.5	49.1	10.0	50.0	9.0	48.2
1	29	1989	9.5	49.1	10.5	50.9	9.0	48.2
1	30	1989	10.0	50.0	11.0	51.8	9.5	49.1
1	31	1989	10.5	50.9	11.0	51.8	10.0	50.0
2	1	1989	10.5	50.9	11.0	51.8	10.0	50.0
2	2	1989	9.0	48.2	10.5	50.9	8.5	47.3
2	3	1989	8.0	46.4	9.0	48.2	8.0	46.4
2	4	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	5	1989	6.0	42.8	7.5	45.5	5.5	41.9
2	6	1989	5.5	41.9	6.0	42.8	5.0	41.0
2	7	1989	5.5	41.9	6.5	43.7	5.0	41.0
2	8	1989	6.0	42.8	7.5	45.5	5.5	41.9
2	9	1989	7.0	44.6	8.0	46.4	7.0	44.6
2	10	1989	8.0	46.4	8.5	47.3	7.5	45.5
2	11	1989	8.5	47.3	9.5	49.1	8.0	46.4
2	12	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	13	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	14	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	15	1989	9.0	48.2	10.0	50.0	8.5	47.3
2	16	1989	9.5	49.1	10.5	50.9	9.5	49.1

Table 16f. Daily Mean, Maximum, and Minimum Water Temperatures at Woodson Bridge, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	17	1989	10.0	50.0	11.0	51.8	10.0	50.0
2	18	1989	10.5	50.9	11.0	51.8	10.5	50.9
2	19	1989	10.5	50.9	11.5	52.7	10.0	50.0
2	20	1989	10.5	50.9	11.5	52.7	10.0	50.0
2	21	1989	11.0	51.8	11.5	52.7	11.0	51.8
2	22	1989	11.0	51.8	11.5	52.7	11.0	51.8
2	23	1989	11.0	51.8	11.5	52.7	10.5	50.9
2	24	1989	10.5	50.9	11.5	52.7	10.0	50.0
2	25	1989	10.0	50.0	11.0	51.8	9.5	49.1
2	26	1989	10.5	50.9	11.5	52.7	10.0	50.0
2	27	1989	11.0	51.8	12.0	53.6	10.0	50.0
2	28	1989	10.5	50.9	11.5	52.7	10.0	50.0
3	1	1989	10.0	50.0	11.0	51.8	9.5	49.1
3	2	1989	9.5	49.1	10.5	50.9	9.5	49.1
3	3	1989	9.5	49.1	10.5	50.9	9.5	49.1
3	4	1989	9.0	48.2	10.0	50.0	8.5	47.3
3	5	1989	8.5	47.3	9.5	49.1	8.5	47.3
3	6	1989	8.5	47.3	9.5	49.1	8.5	47.3
3	7	1989	10.0	50.0	11.0	51.8	9.0	48.2

YEAR 1977

Table 17a. Daily Maximum and Minimum Water Temperatures near Snaden Island and the Glenn-Colusa Canal Pumps^{1/ 2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1							65	64	70			
2							66	64				
3							66	64				
4							66	64				
5							66	64				
6							68	64				
7							-	-				
8						67	66	-	-			
9						65	65	65				
10						65	63	67	64			
11						63	62	69	65			
12						63	62	69	66			
13						63	62	70	-			
14						64	62	-	-			
15						64	62	-	-			
16						64	63	-	-			
17						63	61	-	-			
18						64	62	-	-			
19						64	61	-	-			
20						62	61	-	-			
21						64	61	70	67			
22						66	64	70	67			
23						67	65	70	66			
24						67	65	70	67			
25						67	64	70	67			
26						67	65	69	66			
27						67	65	70	66			
28						69	64	70.5	66.5			
29						-	-	70.5	66.5			
30						65	64	70	67			
31								70.5	68			

MAX

MIN

-No Data.

1/ Palmer thermograph located at river mile 205.5.

2/ From unpublished DFG, Region 1 data.

YEAR 1980

Table 17b. Daily Maximum and Minimum Water Temperatures near Snaden Island and the Glenn-Colusa Canal Pumps, 1980^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max	min	max	min	max	min	max	min	max	min	max	min
1					62	60	62	61	60	58	61	58
2					61	60	61	60	60	58	61	60
3					62	61	59	58	60	58	62	61
4					62	60	56	56	60	58	62	58
5					62	61	57	55	60	58	61	61
6					62	61	58	56	60	58	61	61
7					62	60	59	57	60	58	61	61
8					62	60	59	57	60	57	61	61
9					60	56	60	57	58	57	61	61
10					56	54	56	55	59	57	58	59
11					56	55	57	55	58	56	63	62
12					57	55	58	56	57	55	63	61
13					57	56	58	57	54	60	62	60
14					57	56	60	58	58	60	61	60
15					58	56	61	59	59	60	61	61
16					58	56	62	61	59	58	61	60
17					59	57	63	61	59	56	62	60
18					59	57	64	62	59	56	61	60
19					60	58	65	63	61	57	60	59
20					58	56	66	64	60	58	61	60
21					55	54	66	65	60	58	61	61
22					54	53	67	62	59	58	61	61
23					54	53	62	61	59	58	61	61
24					55	54	57	57	59	58	61	61
25					57	55	57	56	59	58	60	59
26					58	57	58	56	60	58	61	60
27					59	58	58	57	60	58	61	61
28					59	58	59	57	62	60	61	61
29					61	58	60	57	62	60	60	60
30					62	61	61	59	60	58	61	60
31						61	60		61	58	60	60
MAX						67		62	62	62	63	59
MIN						55		54	56	58	57	51
												53
												48

1/ Type and exact location of thermograph unknown.

2/ From unpublished DWR, Northern District data.

YEAR 1979

Table 18a. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1979-80^{1/ 2/}

DAY	JAN. max min	FEB. max min	MAR. max min	APR. max min	MAY max min	JUN. max min	JUL. max min	AUG. max min	SEP. max min	OCT. max min	NOV. max min	DEC. max min
1						62	58	58	56	-	62	60
2						63	59	59	55	-	64	61
3					61	58	63	60	55	-	64	61
4					59	58	64	62	59	-	65	62
5					57	56	64	61	59	-	64	61
6					53	53	62	60	55	-	65	62
7					53	51	60	58	60	55	-	66
8					53	45	60	57	60	55	61	-
9					56	52	60	57	60	55	62	63
10					58	55	60	57	60	55	62	59
11					60	58	61	57	58	55	62	61
12					61	59	61	58	59	55	60	59
13					62	59	61	57	62	57	61	59
14					63	60	60	57	62	57	62	59
15					62	61	60	57	62	57	61	57
16					62	60	59	57	61	56	63	61
17					63	61	58	55	61	57	66	62
18					63	61	57	55	61	56	64	62
19					64	62	57	56	61	56	65	62
20					64	62	59	58	61	56	60	57
21					63	61	60	58	59	56	63	60
22					63	62	61	57	61	55	63	60
23					62	62	61	57	61	56	63	60
24					63	60	61	58	61	57	63	60
25					63	61	61	59	61	56	-	61
26					64	61	62	59	61	57	-	61
27					62	61	61	58	61	56	-	64
28					59	58	61	58	-	52	-	63
29					59	55	61	57	-	-	-	63
30					60	56	60	56	-	-	-	63
31					60	57			-	-	63	-
MAX							64			67		
MIN							55			60		
-No Data.												

1/ Rustrak thermograph (1979) and Palmer thermograph (1980), exact location unknown.

2/ From unpublished DWR, Northern District data.

YEAR 1980

Table 18a. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1979-80, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	-	-	-	-	50	50	-	-	-	-	66	63	62	60	63	61	63	61	61	59	53	52	49	48	
2	-	-	-	-	50	49	-	-	-	-	65	62	61	60	63	62	64	62	62	59	54	51	49	48	
3	-	-	-	-	49	49	-	-	-	-	63	61	62	60	63	62	64	62	62	59	54	52	49	49	
4	49	48	-	-	49	49	-	-	-	-	59	59	62	60	63	61	64	62	62	60	55	52	49	48	
5	49	49	-	-	49	49	-	-	-	-	60	57	62	60	63	61	64	62	62	60	54	53	-	-	
6	50	49	-	-	49	49	-	-	-	-	61	58	62	60	63	61	64	62	62	60	55	52	-	-	
7	49	49	-	-	51	49	-	-	-	-	62	59	62	60	63	62	63	61	62	59	55	53	-	-	
8	50	49	-	-	52	50	-	-	-	-	63	60	60	59	63	62	64	62	61	59	55	53	-	-	
9	50	50	-	-	52	50	-	-	-	-	63	60	60	58	63	62	65	62	61	58	54	52	-	-	
10	49	49	-	-	52	50	58	58	-	-	63	61	60	57	63	62	65	62	60	58	53	52	-	-	
11	48	47	-	-	53	51	59	57	-	-	62	60	61	59	63	61	65	62	58	57	53	51	-	-	
12	50	49	-	-	52	51	60	58	-	-	59	58	62	59	62	61	64	62	57	55	51	50	-	-	
13	52	51	-	49	52	50	61	59	-	-	59	57	62	60	64	61	63	62	56	55	51	49	-	-	
14	49	48	51	49	51	50	61	59	-	-	60	56	62	60	63	61	61	60	55	54	50	48	-	-	
15	-	-	50	49	51	50	61	59	-	-	61	57	62	60	63	61	60	59	55	53	50	48	-	-	
16	-	-	50	50	51	49	62	60	-	-	61	58	62	60	63	61	61	58	55	53	50	48	-	-	
17	-	-	52	51	51	49	63	60	-	-	61	59	62	60	64	62	61	59	56	53	50	48	-	-	
18	-	-	52	52	50	49	63	60	-	-	62	59	62	60	63	62	61	60	56	53	50	48	-	-	
19	-	-	52	51	52	49	64	61	-	-	61	59	62	59	63	61	62	60	57	53	51	48	-	-	
20	-	-	51	51	-	49	62	59	-	-	61	57	62	60	63	61	62	61	57	54	51	49	-	-	
21	-	-	50	50	-	-	59	57	-	-	60	57	62	60	63	62	61	60	57	55	50	49	-	-	
22	-	-	50	50	-	-	57	56	-	-	59	57	62	60	63	62	61	59	58	55	51	49	-	-	
23	-	-	51	50	-	-	58	56	62	-	60	57	62	60	63	62	62	59	57	55	51	50	-	-	
24	-	-	50	50	-	-	59	58	60	58	59	56	62	60	64	62	62	60	56	55	51	49	-	-	
25	-	-	50	50	-	-	61	59	60	58	60	56	62	60	64	62	62	60	56	55	50	49	-	-	
26	-	-	50	50	-	-	62	60	61	58	60	57	62	60	64	62	62	60	56	55	49	47	-	-	
27	-	-	50	50	-	-	63	61	62	59	60	57	62	60	64	62	62	60	56	54	50	47	-	-	
28	-	-	51	50	-	-	64	62	63	59	62	58	62	60	63	61	62	59	56	54	49	47	-	-	
29	-	-	51	50	-	-	64	62	63	60	61	60	62	59	63	61	61	59	56	53	49	49	-	-	
30	-	-	-	-	-	-	-	-	-	-	64	61	61	59	62	60	63	61	61	59	54	52	50	48	
31	-	-	-	-	-	-	-	-	-	-	65	61	-	-	63	61	63	61	-	-	54	52	-	-	
MAX											66		63		64		65		62		55				
MIN											56		57		61		58		52		47				
-No Data.																									

YEAR 1983

Table 18b. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1983-84^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1						- -	63 59	62 60	57 55	57 56	58 57	52 51
2						- -	62 58	62 60	59 56	57 56	58 57	52 52
3						60 58	64 58	62 60	60 57	58 56	57 56	52 50
4						61 57	65 60	62 60	60 58	58 56	57 56	50 48
5						62 58	66 61	61 59	60 58	58 57	57 56	48 48
6						62 58	65 61	61 59	60 58	58 57	56 55	50 48
7						62 58	64 60	62 60	62 60	58 57	55 53	50 50
8						62 58	63 59	62 60	62 60	58 57	53 52	50 50
9						62 58	62 58	62 60	61 60	57 57	52 51	50 50
10					53 52	62 58	64 59	62 60	61 60	58 56	51 51	50 50
11					54 50	58 55	64 60	61 59	62 60	58 57	52 51	50 49
12					54 51	60 56	64 60	60 59	63 61	57 57	53 52	48 48
13					54 51	62 57	66 60	60 59	64 62	57 56	52 52	50 48
14					- -	62 58	64 62	60 59	64 62	56 56	52 51	50 50
15					- -	62 58	62 59	62 60	64 62	56 55	52 51	50 50
16					- -	64 58	63 58	62 60	63 62	56 55	52 52	50 50
17					- -	66 60	60 58	62 59	62 61	56 55	52 52	50 50
18					- -	65 60	60 58	62 58	62 61	56 55	52 50	50 50
19					- -	63 58	60 57	62 58	62 61	56 55	51 50	49 49
20					- -	64 60	60 57	60 56	60 61	57 56	51 50	49 48
21					- -	63 60	60 58	60 57	60 59	58 56	50 48	48 48
22					- -	64 60	61 58	60 57	60 59	58 56	50 48	48 48
23					- -	64 60	61 58	60 57	60 58	58 56	50 49	48 46
24					- -	64 60	61 58	60 57	60 58	58 56	50 48	46 42
25					- -	64 60	61 58	60 58	60 60	58 56	48 46	45 41
26					- -	64 60	61 59	60 57	60 60	58 56	48 47	46 45
27					- -	64 60	61 59	60 57	60 58	56 56	50 48	47 46
28					- -	63 60	62 59	60 57	58 58	57 56	48 47	47 47
29					- -	63 60	62 60	60 57	58 57	55 55	50 48	47 47
30					- -	64 60	62 60	60 58	58 57	56 55	50 50	48 47
31					- -		62 60	60 57		58 56	51 50	48 48
MAX								66	62	64	58	58
MIN								57	56	55	55	46
-No Data.												52
												41

1/ Palmer thermograph located on east bank about 50 feet above the bridge.

2/ From unpublished DWR, Northern District data.

YEAR 1984

Table 18b. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1983-84, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	48	48	48	50	50																		
2	48	48	50	48	51	50																		
3	48	48	50	48	52	50																		
4	48	48	50	48	52	52																		
5	48	48	50	48	52	51																		
6	48	48	50	49	52	51																		
7	48	48	50	49	53	52																		
8	48	48	50	49	54	53																		
9	48	48	50	50	54	53																		
10	48	48	50	49	54	54																		
11	48	48	49	49	54	54																		
12	48	48	48	48	54	54																		
13	48	48	48	48	54	53																		
14	48	47	48	48	54	53																		
15	47	47	48	48	54	54																		
16	47	47	48	48	54	53																		
17	47	47	48	47	53	52																		
18	47	46	48	47	53	52																		
19	47	46	48	48	53	52																		
20	46	46	48	48	53	52																		
21	46	46	49	48	54	53																		
22	46	46	49	49	54	53																		
23	48	46	49	49	53	53																		
24	48	47	49	49	54	53																		
25	48	47	49	48	53	53																		
26	48	48	50	48	53	53																		
27	48	48	50	48	53	53																		
28	48	48	50	48	54	53																		
29	48	48	50	50	54	53																		
30	48	48			-	-																		
31	48	48			-	-																		
MAX		48			50																			
MIN		46			47																			

-No Data.

YEAR 1986

Table 18c. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1986-89^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1					56	56	65	63	61	60	63	62
2					56	54	66	64	61	60	63	62
3					55	54	65	64	62	61	63	62
4					54	53	65	64	62	61	63	62
5					53	53	64	63	61	61	64	62
6					53	53	63	62	61	61	64	62
7					54	53	64	62	62	60	64	63
8				56	56	55	54	64	62	61	63	62
9				57	56	57	55	64	62	60	60	59
10				59	56	58	57	64	62	63	62	60
11				60	58	58	57	64	63	62	60	59
12				60	58	58	57	63	62	64	62	60
13				59	57	59	57	63	62	63	62	61
14				58	57	58	56	63	62	63	62	61
15				57	55	56	55	62	61	63	62	60
16				55	54	57	56	62	61	62	61	58
17				55	53	58	56	62	61	62	61	58
18				55	54	60	58	62	61	62	61	59
19				58	54	61	59	61	60	62	61	59
20				60	57	60	59	61	60	62	61	59
21				61	58	60	59	61	60	62	61	59
22				62	60	59	58	62	61	62	61	59
23				61	59	59	58	63	61	62	61	60
24				59	58	60	58	63	62	62	60	59
25				58	57	62	59	63	62	61	59	58
26				57	56	63	61	62	60	62	61	58
27				57	56	64	62	60	59	62	61	57
28				58	56	64	62	60	59	62	60	58
29				57	56	65	63	61	60	61	60	59
30				57	55	65	63	61	60	62	61	60
31						65	64		62	61	61	60
MAX						65		66	64	64	64	61
MIN						53		59	60	60	57	55
									57	51	51	49
										57	51	49

1/ Palmer thermograph located on west bank about 50 feet above the bridge.

2/ From unpublished DWR, Northern District data.

YEAR 1987

Table 18c. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
1	49	49	49	48	52	48	61	57	55	54	59	56	60	58	61	58	66	64	-	-	58	56	50	49	
2	49	49	48	48	52	50	61	58	55	52	61	58	60	58	61	59	66	63	-	-	56	55	52	50	
3	49	49	49	48	53	51	60	58	57	54	61	59	60	58	62	58	65	62	-	-	57	54	54	52	
4	49	48	49	48	52	51	59	56	58	56	62	60	60	57	63	59	64	62	-	-	58	55	54	53	
5	48	48	50	48	52	51	58	56	59	57	60	59	60	58	63	60	63	61	-	-	58	55	53	53	
6	48	47	51	49	53	51	59	56	60	58	60	59	60	57	63	60	62	60	-	-	57	55	53	52	
7	48	47	52	50	52	51	59	56	60	59	60	59	61	58	63	60	62	59	-	-	58	55	52	50	
8	47	46	52	50	52	51	60	57	59	58	60	59	62	58	63	61	62	60	-	-	57	55	50	48	
9	47	46	51	50	53	51	60	57	59	56	61	59	62	59	63	61	62	60	-	-	58	55	50	48	
10	47	46	50	50	52	51	60	58	58	56	60	59	62	59	63	61	62	60	-	-	57	54	52	50	
11	46	46	51	50	52	51	58	55	60	56	60	59	61	58	63	61	62	60	-	-	57	54	50	48	
12	46	45	51	50	52	51	56	54	60	58	61	59	62	58	62	61	62	60	-	-	56	54	48	44	
13	46	45	52	51	51	50	57	55	59	57	61	60	62	58	63	61	62	60	-	-	56	53	44	42	
14	46	45	52	50	51	50	58	56	60	57	61	59	62	59	62	61	64	61	-	-	54	52	43	42	
15	45	43	50	49	50	49	60	57	60	57	60	58	62	59	63	61	64	62	-	-	53	51	44	43	
16	43	42	49	48	51	49	60	58	59	58	59	58	61	59	63	62	64	62	-	-	54	52	44	43	
17	45	42	50	49	52	51	59	58	61	59	59	58	60	55	64	62	64	61	-	-	53	51	46	44	
18	45	42	50	49	53	52	57	55	61	59	59	58	57	54	63	62	-	-	-	-	53	51	46	46	
19	47	44	50	49	52	50	54	53	60	58	60	58	59	55	63	62	-	-	-	-	54	52	47	46	
20	47	45	50	48	51	50	54	52	60	58	59	57	59	55	63	62	-	-	-	-	53	52	47	45	
21	47	45	50	49	50	49	56	53	60	57	60	58	58	55	63	62	-	-	-	-	53	51	48	46	
22	47	45	50	48	50	48	56	55	61	57	60	57	58	55	64	63	-	-	-	-	52	51	49	46	
23	46	46	49	47	50	49	56	54	61	58	60	57	59	56	64	63	-	-	-	-	53	50	47	45	
24	47	46	48	46	52	50	56	53	60	57	61	58	60	56	64	63	-	-	-	-	53	51	45	43	
25	48	47	48	46	54	52	56	54	59	57	62	60	61	57	64	63	-	-	-	-	51	49	44	42	
26	48	46	49	46	56	53	57	55	58	57	62	61	61	57	65	64	-	-	-	-	50	48	43	42	
27	49	47	50	46	56	54	58	56	60	56	62	61	61	57	66	64	-	-	-	61	59	50	48	42	
28	50	49	50	47	56	54	58	56	61	57	62	60	61	58	67	63	-	-	61	59	50	48	43	42	
29	49	48	-	-	57	54	57	56	60	58	60	58	61	58	66	63	-	-	61	58	50	48	43	42	
30	49	49	-	-	59	55	56	54	59	58	61	58	60	58	66	63	-	-	61	58	49	48	42	41	
31	49	48	-	-	60	56	-	-	59	57	-	-	61	58	66	64	-	-	59	57	-	42	41	-	
MAX	50	52	60	61	61	52	62	62	62	67	-	-	-	-	-	-	-	-	58	54	-	-	-	-	
MIN	42	46	48	52	52	56	56	54	58	58	-	-	-	-	-	-	-	-	48	41	-	-	-	-	

-No Data.

YEAR 1988

Table 18c. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	42	41	47	46	54	52	55	53	55	53	58	56	63	60	63	60	70	66	65	62	58	57	50	49
2	43	42	47	45	53	51	56	54	56	54	61	56	64	61	63	60	70	68	64	62	58	57	50	49
3	43	42	46	45	54	52	55	53	57	55	62	59	64	62	63	60	71	68	64	62	58	57	50	49
4	43	42	47	44	54	52	55	53	56	54	61	59	64	61	63	60	70	68	64	62	58	57	50	49
5	44	43	46	44	55	53	55	53	54	53	59	57	63	60	63	60	70	67	64	61	59	57	50	49
6	46	45	47	44	55	53	56	54	53	52	57	55	63	60	62	60	69	67	64	62	59	57	51	50
7	46	46	47	45	56	53	55	55	52	50	56	54	63	60	62	59	68	65	63	61	58	56	51	51
8	46	46	49	46	57	53	53	51	53	50	56	54	63	61	64	60	68	66	64	61	56	55	51	50
9	47	46	51	48	56	52	53	51	55	52	57	55	64	61	64	61	68	66	64	62	55	53	51	50
10	48	47	52	49	53	50	55	51	57	52	61	56	65	63	64	62	68	64	63	62	54	53	51	50
11	48	46	52	50	52	49	55	52	60	54	62	59	65	62	63	61	66	65	63	62	55	54	51	50
12	46	45	53	50	52	49	55	52	58	56	63	60	64	62	62	60	66	64	62	61	55	55	51	50
13	46	45	52	50	53	50	54	52	59	55	64	62	64	62	62	60	65	62	61	60	55	54	52	50
14	47	46	51	49	53	50	52	50	59	57	66	63	65	62	62	60	66	62	61	59	54	53	51	49
15	47	46	52	49	54	51	53	49	61	59	66	63	64	62	62	60	66	63	62	60	54	53	49	48
16	47	46	51	49	54	50	53	51	60	57	64	62	65	61	63	60	68	63	64	61	53	53	48	47
17	46	45	51	48	55	51	53	51	58	57	64	62	65	62	64	61	66	62	64	61	53	52	48	47
18	45	44	50	48	56	52	53	51	60	57	65	63	65	62	65	62	64	61	65	62	53	52	49	48
19	44	43	50	48	56	52	52	50	62	59	66	64	65	62	65	63	63	61	65	62	52	51	49	49
20	45	44	52	48	57	53	51	49	63	60	65	63	65	62	66	64	63	60	65	62	52	51	49	48
21	46	44	52	50	56	54	53	50	64	61	64	63	65	62	67	65	63	60	64	61	51	51	49	48
22	47	46	53	50	57	54	53	51	63	61	64	62	64	62	67	65	64	61	63	61	52	51	48	47
23	49	46	55	51	56	53	54	51	64	60	65	63	65	62	67	65	64	61	63	60	52	51	47	46
24	49	47	55	51	56	53	55	52	64	61	66	64	64	62	67	65	64	61	62	59	51	49	46	45
25	50	47	55	51	58	54	56	54	64	61	65	64	63	61	67	65	63	61	62	59	49	48	45	44
26	49	47	56	52	58	55	57	55	64	61	64	63	63	61	68	65	64	61	61	59	49	48	44	43
27	49	47	55	53	56	52	58	56	63	61	64	62	64	62	68	66	64	61	61	58	48	48	43	42
28	49	47	55	53	53	51	57	56	61	56	63	60	64	62	69	66	64	62	60	58	50	48	43	42
29	49	48	54	53	54	51	58	56	58	56	61	58	64	62	69	66	65	62	59	57	50	49	43	42
30	48	47			53	52	57	54	58	55	61	58	64	61	69	66	66	62	58	56	50	49	43	43
31	47	46			54	52			58	57			63	60	70	66			58	56			43	43
MAX	50		56		58		58		64		66		65		70		71		65		59		52	
MIN	41		44		49		49		50		54		60		60		60		56		48		42	

YEAR 1989

Table 18c. Daily Maximum and Minimum Water Temperatures at Hamilton City, 1986-89, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	43	43	51	50	50	49	54	54	59	57	60	58	58	55	59	56									
2	44	43	50	48	49	48	54	53	59	58	61	59	58	56	58	56									
3	44	43	48	46	49	47	54	53	60	56	62	60	59	57	59	56									
4	44	44	46	45	47	47	55	53	63	57	61	58	60	58	59	56									
5	45	44	45	42	46	46	57	55	64	60	58	58	60	58	60	57									
6	45	44	42	40	46	46	59	56	63	61	59	58	60	59	60	57									
7	44	44	41	39	48	46	61	58	62	60	59	57	62	59	60	57									
8	44	44	42	40	50	48	62	60	61	60	60	58	62	60	60	57									
9	45	44	43	42	51	50	63	61	60	55	61	60	62	60	61	58									
10	45	45	45	43	51	51	63	61	55	52	61	60	62	61	61	58									
11	45	44	47	45	52	51	63	62	54	51	61	60	62	61	60	58									
12	45	44	48	46	53	52	63	61	57	53	61	60	62	60	60	58									
13	45	44	49	47	52	52	63	61	60	56	61	60	63	61	60	58									
14	45	44	48	47	51	51	63	61	57	56	62	60	62	60	61	59									
15	45	44	48	47	51	50	63	62	57	55	62	60	62	60	62	60									
16	46	45	50	48	52	51	65	62	57	55	60	57	62	60	61	60									
17	47	45	51	49	51	50	65	63	57	55	59	57	61	60	61	60									
18	47	46	51	50	51	50	65	63	57	55	60	58	61	59	62	60									
19	48	47	51	50	50	50	66	64	60	55	60	59	61	60	62	60									
20	49	47	52	51	52	50	65	64	60	56	59	57	61	60	61	60									
21	49	47	52	51	53	52	63	61	58	55	60	57	60	58	61	60									
22	49	48	51	51	54	52	61	59	56	54	60	58	60	58	60	56									
23	48	47	51	50	54	53	58	55	55	53	62	60	60	57											
24	47	46	50	49	54	53	55	53	54	52	62	60	59	56											
25	47	46	50	49	53	52	53	52	55	52	61	60	60	56											
26	48	46	50	48	52	51	54	52	56	53	61	60	59	57											
27	48	46	51	49	51	51	56	54	58	56	60	58	60	56											
28	48	47	51	50	52	51	58	55	57	55	59	56	60	56											
29	50	48			53	52	59	57	57	55	56	54	60	56											
30	50	49			54	52	58	57	58	56	56	54	60	57											
31	50	49			54	54			59	57			59	56											
MAX	50		52		54		66		64		62		63												
MIN	43		39		46		52		51		54		55												

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989 1/ 2/

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	18	1987	17.5	63.5	18.5	65.3	16.5	61.7
9	19	1987	17.5	63.5	19.0	66.2	17.0	62.6
9	20	1987	18.0	64.4	19.0	66.2	17.0	62.6
9	21	1987	18.0	64.4	19.5	67.1	17.5	63.5
9	22	1987	18.0	64.4	19.5	67.1	17.5	63.5
9	23	1987	18.5	65.3	19.5	67.1	17.5	63.5
9	24	1987	18.5	65.3	19.5	67.1	18.0	64.4
9	25	1987	18.5	65.3	19.0	66.2	18.0	64.4
9	26	1987	18.0	64.4	19.0	66.2	17.5	63.5
9	27	1987	17.5	63.5	18.5	65.3	17.5	63.5
9	28	1987	17.5	63.5	18.5	65.3	17.0	62.6
9	29	1987	17.5	63.5	19.0	66.2	17.0	62.6
9	30	1987	18.0	64.4	19.0	66.2	17.0	62.6
10	1	1987	18.0	64.4	19.0	66.2	17.0	62.6
10	2	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	3	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	4	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	5	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	6	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	7	1987	18.0	64.4	19.0	66.2	17.5	63.5
10	8	1987	17.5	63.5	18.5	65.3	17.5	63.5
10	31	1987	15.0	59.0	16.0	60.8	15.0	59.0
11	1	1987	14.5	58.1	15.5	59.9	14.5	58.1
11	2	1987	14.5	58.1	15.0	59.0	14.0	57.2
11	3	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	4	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	5	1987	14.0	57.2	15.0	59.0	13.5	56.3
11	6	1987	14.0	57.2	15.0	59.0	13.5	56.3
11	7	1987	14.0	57.2	14.5	58.1	13.5	56.3
11	8	1987	14.0	57.2	15.0	59.0	14.0	57.2
11	9	1987	14.0	57.2	15.0	59.0	13.5	56.3
11	10	1987	14.0	57.2	15.0	59.0	13.5	56.3
11	11	1987	13.5	56.3	14.5	58.1	13.5	56.3
11	12	1987	13.5	56.3	14.5	58.1	13.0	55.4
11	13	1987	13.5	56.3	14.5	58.1	13.0	55.4
11	14	1987	13.5	56.3	14.0	57.2	13.5	56.3
11	15	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	16	1987	12.0	53.6	13.0	55.4	12.0	53.6
11	17	1987	12.0	53.6	13.0	55.4	12.0	53.6
11	18	1987	12.0	53.6	12.5	54.5	12.0	53.6
11	19	1987	12.0	53.6	13.0	55.4	12.0	53.6
11	20	1987	12.5	54.5	13.5	56.3	12.5	54.5
11	21	1987	12.5	54.5	13.0	55.4	12.5	54.5
11	22	1987	12.0	53.6	13.0	55.4	12.0	53.6

1/ Omnidata DP112 thermograph located on west bank about 50 feet above bridge.

2/ Unpublished data collected by DWR, Northern District.

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	23	1987	12.0	53.6	12.5	54.5	11.5	52.7
11	24	1987	11.5	52.7	12.5	54.5	11.5	52.7
11	25	1987	11.5	52.7	12.0	53.6	11.0	51.8
11	26	1987	10.5	50.9	11.0	51.8	10.0	50.0
11	27	1987	10.0	50.0	11.0	51.8	9.5	49.1
11	28	1987	10.0	50.0	11.0	51.8	9.5	49.1
11	29	1987	10.0	50.0	11.0	51.8	9.5	49.1
11	30	1987	10.0	50.0	10.5	50.9	9.5	49.1
12	1	1987	10.0	50.0	10.5	50.9	10.0	50.0
12	2	1987	10.5	50.9	11.0	51.8	10.5	50.9
12	3	1987	11.5	52.7	12.0	53.6	11.0	51.8
12	4	1987	12.0	53.6	13.0	55.4	12.0	53.6
12	5	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	6	1987	12.5	54.5	13.0	55.4	12.5	54.5
12	7	1987	12.0	53.6	12.5	54.5	11.5	52.7
12	8	1987	11.0	51.8	11.5	52.7	11.0	51.8
12	9	1987	10.0	50.0	11.0	51.8	10.0	50.0
12	10	1987	10.0	50.0	11.0	51.8	9.5	49.1
12	11	1987	11.0	51.8	12.0	53.6	11.0	51.8
12	12	1987	10.5	50.9	11.5	52.7	10.0	50.0
12	13	1987	8.5	47.3	10.0	50.0	7.5	45.5
12	14	1987	7.0	44.6	8.0	46.4	7.0	44.6
12	15	1987	7.0	44.6	7.0	44.6	7.0	44.6
12	16	1987	7.0	44.6	7.5	45.5	7.0	44.6
12	17	1987	7.0	44.6	8.0	46.4	7.0	44.6
12	18	1987	8.0	46.4	8.5	47.3	7.5	45.5
12	19	1987	8.0	46.4	8.5	47.3	8.0	46.4
12	20	1987	8.5	47.3	9.0	48.2	8.5	47.3
12	21	1987	8.5	47.3	9.0	48.2	8.0	46.4
12	22	1987	8.5	47.3	9.5	49.1	8.5	47.3
12	23	1987	9.0	48.2	10.0	50.0	9.0	48.2
12	24	1987	8.5	47.3	9.5	49.1	8.0	46.4
12	25	1987	7.0	44.6	8.0	46.4	6.5	43.7
12	26	1987	6.0	42.8	7.0	44.6	6.0	42.8
12	27	1987	6.5	43.7	7.0	44.6	6.0	42.8
12	28	1987	6.5	43.7	7.0	44.6	6.0	42.8
12	29	1987	6.5	43.7	7.0	44.6	6.5	43.7
12	30	1987	6.0	42.8	6.5	43.7	6.0	42.8
12	31	1987	6.0	42.8	6.5	43.7	6.0	42.8

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1988	6.0	42.8	6.5	43.7	6.0	42.8
1	2	1988	6.0	42.8	6.5	43.7	5.5	41.9
1	3	1988	6.5	43.7	7.0	44.6	6.5	43.7
1	4	1988	6.5	43.7	7.0	44.6	6.0	42.8
1	5	1988	6.0	42.8	6.5	43.7	6.0	42.8
1	6	1988	7.0	44.6	8.0	46.4	6.5	43.7
1	7	1988	8.0	46.4	8.5	47.3	7.5	45.5
1	8	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	9	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	10	1988	8.0	46.4	8.5	47.3	8.0	46.4
1	11	1988	8.5	47.3	9.5	49.1	8.5	47.3
1	12	1988	9.0	48.2	9.5	49.1	9.0	48.2
1	13	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	14	1988	8.0	46.4	8.0	46.4	8.0	46.4
1	15	1988	8.5	47.3	9.0	48.2	8.0	46.4
1	16	1988	9.0	48.2	9.5	49.1	8.5	47.3
1	17	1988	8.5	47.3	9.0	48.2	8.5	47.3
1	18	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	19	1988	7.5	45.5	8.0	46.4	7.0	44.6
1	20	1988	7.0	44.6	7.5	45.5	7.0	44.6
1	21	1988	7.5	45.5	8.0	46.4	7.0	44.6
1	22	1988	7.5	45.5	8.5	47.3	7.5	45.5
1	23	1988	8.0	46.4	9.0	48.2	8.0	46.4
1	24	1988	9.0	48.2	10.0	50.0	8.5	47.3
1	25	1988	9.0	48.2	10.0	50.0	9.0	48.2
1	26	1988	9.5	49.1	10.5	50.9	9.5	49.1
1	27	1988	9.5	49.1	10.0	50.0	9.0	48.2
1	28	1988	9.0	48.2	10.0	50.0	9.0	48.2
1	29	1988	9.5	49.1	10.0	50.0	9.5	49.1
1	30	1988	9.5	49.1	10.0	50.0	9.5	49.1
1	31	1988	9.5	49.1	10.0	50.0	9.5	49.1
2	1	1988	8.5	47.3	9.5	49.1	8.5	47.3
2	2	1988	8.5	47.3	9.5	49.1	8.5	47.3
2	3	1988	8.5	47.3	9.5	49.1	8.5	47.3
2	4	1988	8.5	47.3	9.0	48.2	8.0	46.4
2	5	1988	8.5	47.3	9.5	49.1	8.0	46.4
2	6	1988	8.5	47.3	9.5	49.1	8.0	46.4
2	7	1988	8.5	47.3	9.5	49.1	8.5	47.3
2	8	1988	9.0	48.2	10.0	50.0	8.5	47.3
2	9	1988	10.0	50.0	11.0	51.8	9.5	49.1
2	10	1988	11.0	51.8	12.0	53.6	10.5	50.9
2	11	1988	11.5	52.7	12.5	54.5	11.0	51.8
2	12	1988	11.5	52.7	12.5	54.5	11.5	52.7
2	13	1988	12.0	53.6	13.0	55.4	11.5	52.7
2	14	1988	11.5	52.7	12.5	54.5	11.5	52.7
2	15	1988	11.0	51.8	12.0	53.6	11.0	51.8

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	16	1988	11.5	52.7	12.5	54.5	11.0	51.8
2	17	1988	11.0	51.8	11.5	52.7	10.5	50.9
2	18	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	19	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	20	1988	10.5	50.9	11.5	52.7	10.0	50.0
2	21	1988	11.0	51.8	12.5	54.5	10.5	50.9
2	22	1988	11.5	52.7	13.0	55.4	11.0	51.8
2	23	1988	12.0	53.6	13.0	55.4	11.0	51.8
2	24	1988	12.5	54.5	13.5	56.3	11.5	52.7
2	25	1988	12.0	53.6	13.5	56.3	12.0	53.6
2	26	1988	12.5	54.5	13.5	56.3	12.0	53.6
2	27	1988	12.5	54.5	13.5	56.3	12.0	53.6
2	28	1988	12.5	54.5	13.0	55.4	12.5	54.5
2	29	1988	12.5	54.5	13.5	56.3	12.5	54.5
3	1	1988	12.5	54.5	13.0	55.4	12.5	54.5
3	2	1988	12.5	54.5	13.0	55.4	12.5	54.5
3	3	1988	12.0	53.6	12.5	54.5	11.5	52.7
3	4	1988	12.5	54.5	13.0	55.4	12.5	54.5
3	5	1988	12.5	54.5	13.5	56.3	12.0	53.6
3	6	1988	13.0	55.4	13.5	56.3	12.5	54.5
3	7	1988	13.0	55.4	13.5	56.3	12.5	54.5
3	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
3	9	1988	13.0	55.4	14.5	58.1	12.5	54.5
3	10	1988	13.0	55.4	13.5	56.3	12.5	54.5
3	11	1988	12.0	53.6	12.5	54.5	11.5	52.7
3	12	1988	11.0	51.8	12.0	53.6	10.5	50.9
3	13	1988	11.5	52.7	12.0	53.6	10.5	50.9
3	14	1988	11.5	52.7	12.5	54.5	11.0	51.8
3	15	1988	12.0	53.6	13.0	55.4	11.0	51.8
3	16	1988	12.0	53.6	13.0	55.4	11.5	52.7
3	17	1988	12.0	53.6	13.0	55.4	11.5	52.7
3	19	1988	12.5	54.5	13.5	56.3	12.0	53.6
3	29	1988	11.5	52.7	12.5	54.5	11.5	52.7
3	30	1988	12.0	53.6	12.5	54.5	11.5	52.7
3	31	1988	12.0	53.6	12.5	54.5	11.5	52.7
4	1	1988	12.0	53.6	13.0	55.4	11.5	52.7
4	2	1988	12.5	54.5	13.0	55.4	12.5	54.5
4	3	1988	13.0	55.4	13.5	56.3	13.0	55.4
4	4	1988	12.5	54.5	13.5	56.3	12.5	54.5
4	5	1988	12.5	54.5	13.5	56.3	12.0	53.6
4	6	1988	12.5	54.5	13.5	56.3	12.5	54.5
4	7	1988	13.0	55.4	18.0	64.4	12.5	54.5
4	8	1988	13.0	55.4	18.0	64.4	13.0	55.4
4	9	1988	12.5	54.5	13.5	56.3	11.5	52.7
4	10	1988	12.5	54.5	13.0	55.4	11.5	52.7
4	11	1988	12.5	54.5	13.5	56.3	11.5	52.7

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
4	12	1988	13.0	55.4	18.0	64.4	12.0	53.6
4	13	1988	13.0	55.4	18.0	64.4	12.0	53.6
4	14	1988	12.0	53.6	13.5	56.3	12.0	53.6
4	15	1988	11.5	52.7	12.5	54.5	11.5	52.7
4	16	1988	12.0	53.6	13.0	55.4	11.0	51.8
4	17	1988	12.5	54.5	13.0	55.4	12.0	53.6
4	18	1988	12.0	53.6	13.0	55.4	12.0	53.6
4	19	1988	12.5	54.5	13.0	55.4	11.5	52.7
4	20	1988	11.5	52.7	13.0	55.4	11.5	52.7
4	21	1988	11.5	52.7	12.5	54.5	11.0	51.8
4	22	1988	12.0	53.6	13.0	55.4	11.5	52.7
4	23	1988	12.5	54.5	13.0	55.4	12.0	53.6
4	24	1988	12.5	54.5	13.5	56.3	12.0	53.6
9	22	1988	17.0	62.6	18.0	64.4	16.5	61.7
9	23	1988	17.5	63.5	18.5	65.3	17.0	62.6
9	24	1988	17.5	63.5	19.0	66.2	17.0	62.6
9	25	1988	17.5	63.5	18.5	65.3	17.0	62.6
9	26	1988	17.5	63.5	18.5	65.3	17.0	62.6
9	27	1988	17.5	63.5	18.5	65.3	17.0	62.6
9	28	1988	17.5	63.5	18.0	64.4	17.0	62.6
9	29	1988	17.5	63.5	19.0	66.2	17.0	62.6
9	30	1988	18.0	64.4	19.0	66.2	17.5	63.5
10	1	1988	18.0	64.4	18.5	65.3	17.5	63.5
10	2	1988	17.5	63.5	18.5	65.3	17.5	63.5
10	3	1988	17.5	63.5	18.5	65.3	17.0	62.6
10	4	1988	17.0	62.6	18.0	64.4	17.0	62.6
10	5	1988	17.0	62.6	18.0	64.4	17.0	62.6
10	6	1988	17.5	63.5	18.0	64.4	17.0	62.6
10	7	1988	17.5	63.5	18.0	64.4	17.0	62.6
10	8	1988	17.5	63.5	18.5	65.3	17.0	62.6
10	9	1988	17.5	63.5	18.5	65.3	17.0	62.6
10	10	1988	17.5	63.5	18.0	64.4	17.0	62.6
10	11	1988	17.0	62.6	18.0	64.4	17.0	62.6
10	12	1988	17.0	62.6	17.5	63.5	16.5	61.7
10	13	1988	16.5	61.7	17.0	62.6	16.0	60.8
10	14	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	15	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	16	1988	17.0	62.6	18.5	65.3	16.5	61.7
10	18	1988	17.5	63.5	18.5	65.3	17.0	62.6
10	19	1988	17.0	62.6	18.5	65.3	16.5	61.7
10	20	1988	17.0	62.6	18.0	64.4	16.5	61.7
10	21	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	22	1988	16.5	61.7	17.5	63.5	16.0	60.8
10	23	1988	16.0	60.8	17.5	63.5	15.5	59.9
10	24	1988	16.0	60.8	17.0	62.6	15.5	59.9
10	25	1988	16.0	60.8	17.0	62.6	15.0	59.0

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
10	26	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	27	1988	15.5	59.9	16.5	61.7	15.0	59.0
10	28	1988	15.0	59.0	16.0	60.8	14.5	58.1
10	29	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	30	1988	14.5	58.1	15.5	59.9	14.0	57.2
10	31	1988	14.0	57.2	15.5	59.9	14.0	57.2
11	1	1988	14.5	58.1	15.0	59.0	14.0	57.2
11	2	1988	14.5	58.1	15.0	59.0	14.5	58.1
11	3	1988	14.0	57.2	15.0	59.0	14.0	57.2
11	4	1988	14.5	58.1	15.5	59.9	14.5	58.1
11	5	1988	14.5	58.1	15.5	59.9	14.5	58.1
11	6	1988	14.5	58.1	15.0	59.0	14.0	57.2
11	7	1988	13.5	56.3	14.0	57.2	13.5	56.3
11	8	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	9	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	10	1988	12.5	54.5	13.5	56.3	12.5	54.5
11	11	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	12	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	13	1988	13.0	55.4	13.5	56.3	13.0	55.4
11	14	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	15	1988	12.5	54.5	13.0	55.4	12.5	54.5
11	16	1988	12.0	53.6	12.5	54.5	12.0	53.6
11	17	1988	12.0	53.6	12.5	54.5	12.0	53.6
11	18	1988	11.5	52.7	12.5	54.5	11.5	52.7
11	19	1988	12.0	53.6	12.5	54.5	11.5	52.7
11	20	1988	12.0	53.6	12.0	53.6	12.0	53.6
11	21	1988	12.0	53.6	12.5	54.5	12.0	53.6
11	22	1988	12.0	53.6	13.0	55.4	12.0	53.6
11	23	1988	11.0	51.8	12.0	53.6	10.5	50.9
11	24	1988	10.5	50.9	11.0	51.8	10.5	50.9
11	25	1988	10.5	50.9	11.0	51.8	10.0	50.0
11	26	1988	10.0	50.0	10.5	50.9	9.5	49.1
11	27	1988	11.0	51.8	11.5	52.7	10.5	50.9
11	28	1988	11.0	51.8	11.5	52.7	10.5	50.9
11	29	1988	11.0	51.8	11.5	52.7	11.0	51.8
11	30	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	1	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	2	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	3	1988	11.0	51.8	11.5	52.7	10.5	50.9
12	4	1988	11.0	51.8	12.0	53.6	11.0	51.8
12	5	1988	11.5	52.7	12.5	54.5	11.5	52.7
12	6	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	7	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	8	1988	11.5	52.7	12.0	53.6	11.5	52.7
12	9	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	10	1988	12.0	53.6	12.5	54.5	11.5	52.7

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	11	1988	12.0	53.6	12.5	54.5	12.0	53.6
12	12	1988	12.0	53.6	12.5	54.5	11.5	52.7
12	13	1988	11.0	51.8	12.0	53.6	10.5	50.9
12	14	1988	10.0	50.0	10.5	50.9	9.5	49.1
12	15	1988	9.5	49.1	10.0	50.0	9.5	49.1
12	16	1988	9.5	49.1	10.0	50.0	9.5	49.1
12	17	1988	9.5	49.1	10.5	50.9	9.5	49.1
12	18	1988	10.0	50.0	10.5	50.9	10.0	50.0
12	19	1988	10.0	50.0	10.5	50.9	10.0	50.0
12	20	1988	10.0	50.0	10.5	50.9	9.5	49.1
12	21	1988	9.0	48.2	9.5	49.1	9.0	48.2
12	22	1988	8.5	47.3	9.0	48.2	8.5	47.3
12	23	1988	8.0	46.4	8.5	47.3	8.0	46.4
12	24	1988	7.0	44.6	8.0	46.4	7.0	44.6
12	25	1988	7.0	44.6	7.5	45.5	7.0	44.6
12	26	1988	6.5	43.7	7.0	44.6	6.0	42.8
12	27	1988	6.0	42.8	7.0	44.6	6.0	42.8
12	28	1988	6.5	43.7	7.5	45.5	6.5	43.7
12	29	1988	7.0	44.6	7.0	44.6	7.0	44.6
12	30	1988	6.5	43.7	7.5	45.5	6.5	43.7
12	31	1988	6.5	43.7	7.0	44.6	6.5	43.7

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
1	1	1989	7.0	44.6	8.0	46.4	7.0	44.6
1	2	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	3	1989	7.5	45.5	8.0	46.4	7.5	45.5
1	4	1989	7.5	45.5	8.0	46.4	6.5	43.7
1	5	1989	6.5	43.7	7.0	44.6	6.0	42.8
1	6	1989	6.0	42.8	7.0	44.6	6.0	42.8
1	7	1989	6.5	43.7	7.0	44.6	6.5	43.7
1	8	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	9	1989	7.0	44.6	7.5	45.5	7.0	44.6
1	10	1989	6.5	43.7	7.5	45.5	6.5	43.7
1	11	1989	6.5	43.7	7.0	44.6	6.5	43.7
1	12	1989	6.5	43.7	7.0	44.6	6.5	43.7
1	13	1989	6.5	43.7	7.0	44.6	6.0	42.8
1	14	1989	7.0	44.6	7.5	45.5	6.5	43.7
1	15	1989	7.0	44.6	8.0	46.4	6.5	43.7
1	16	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	17	1989	8.0	46.4	9.0	48.2	7.5	45.5
1	18	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	19	1989	8.5	47.3	9.5	49.1	8.5	47.3
1	20	1989	9.0	48.2	9.5	49.1	8.5	47.3
1	21	1989	9.0	48.2	9.5	49.1	9.0	48.2
1	22	1989	8.5	47.3	9.0	48.2	8.5	47.3
1	23	1989	7.5	45.5	8.5	47.3	7.0	44.6
1	24	1989	7.5	45.5	8.0	46.4	7.0	44.6
1	26	1989	7.5	45.5	8.5	47.3	7.5	45.5
1	27	1989	8.0	46.4	9.0	48.2	8.0	46.4
1	28	1989	8.5	47.3	9.5	49.1	8.0	46.4
1	29	1989	9.0	48.2	10.0	50.0	8.5	47.3
1	30	1989	9.5	49.1	10.5	50.9	9.0	48.2
1	31	1989	10.0	50.0	10.5	50.9	9.5	49.1
2	1	1989	10.0	50.0	11.0	51.8	9.5	49.1
2	2	1989	9.0	48.2	10.0	50.0	8.0	46.4
2	3	1989	7.5	45.5	8.5	47.3	7.5	45.5
2	4	1989	7.0	44.6	8.0	46.4	6.5	43.7
2	5	1989	5.5	41.9	6.5	43.7	4.5	40.1
2	6	1989	4.0	39.2	5.0	41.0	3.5	38.3
2	7	1989	4.5	40.1	5.0	41.0	4.0	39.2
2	8	1989	5.0	41.0	6.0	42.8	4.5	40.1
2	9	1989	6.0	42.8	6.5	43.7	5.5	41.9
2	10	1989	7.0	44.6	7.5	45.5	6.5	43.7
2	11	1989	8.0	46.4	9.0	48.2	7.5	45.5
2	12	1989	8.5	47.3	9.5	49.1	8.0	46.4
2	13	1989	8.5	47.3	9.5	49.1	8.0	46.4
2	14	1989	8.5	47.3	9.0	48.2	8.0	46.4
2	15	1989	8.5	47.3	9.0	48.2	8.0	46.4
2	16	1989	9.0	48.2	10.0	50.0	9.0	48.2

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
2	17	1989	9.5	49.1	10.5	50.9	9.5	49.1
2	18	1989	10.0	50.0	10.5	50.9	10.0	50.0
2	19	1989	10.0	50.0	11.0	51.8	9.5	49.1
2	20	1989	10.5	50.9	11.0	51.8	10.0	50.0
2	21	1989	10.5	50.9	11.5	52.7	10.5	50.9
2	22	1989	11.0	51.8	11.5	52.7	10.5	50.9
2	23	1989	10.5	50.9	11.5	52.7	10.5	50.9
2	24	1989	10.0	50.0	11.0	51.8	10.0	50.0
2	25	1989	10.0	50.0	10.5	50.9	9.5	49.1
2	26	1989	10.0	50.0	11.0	51.8	9.5	49.1
2	27	1989	10.0	50.0	11.0	51.8	10.0	50.0
2	28	1989	10.5	50.9	11.0	51.8	10.0	50.0
3	1	1989	10.0	50.0	10.5	50.9	9.5	49.1
3	2	1989	9.5	49.1	10.0	50.0	9.0	48.2
3	3	1989	8.5	47.3	9.5	49.1	8.0	46.4
3	4	1989	8.0	46.4	9.5	49.1	8.0	46.4
3	5	1989	8.0	46.4	8.5	47.3	8.0	46.4
3	6	1989	7.5	45.5	8.5	47.3	7.5	45.5
3	7	1989	9.0	48.2	10.5	50.9	8.5	47.3
			-	-	-	-	-	-
7	18	1989	17.0	62.6	18.0	64.4	16.5	61.7
7	19	1989	17.0	62.6	18.0	64.4	16.5	61.7
7	20	1989	16.5	61.7	17.5	63.5	16.0	60.8
7	21	1989	16.0	60.8	17.5	63.5	15.5	59.9
7	22	1989	16.0	60.8	17.5	63.5	15.5	59.9
7	23	1989	15.5	59.9	17.0	62.6	15.0	59.0
7	24	1989	15.5	59.9	16.5	61.7	14.5	58.1
7	25	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	26	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	27	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	28	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	29	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	30	1989	15.5	59.9	17.0	62.6	14.5	58.1
7	31	1989	15.5	59.9	16.5	61.7	15.0	59.0
8	1	1989	15.5	59.9	16.5	61.7	14.5	58.1
8	2	1989	15.5	59.9	16.5	61.7	14.5	58.1
8	3	1989	15.5	59.9	17.0	62.6	14.5	58.1
8	4	1989	15.5	59.9	17.0	62.6	14.5	58.1
8	5	1989	16.0	60.8	17.0	62.6	15.0	59.0
8	6	1989	16.0	60.8	17.0	62.6	15.0	59.0
8	7	1989	16.0	60.8	17.0	62.6	15.0	59.0
8	8	1989	16.0	60.8	17.5	63.5	15.0	59.0
8	9	1989	16.5	61.7	17.5	63.5	15.5	59.9
8	10	1989	16.5	61.7	17.5	63.5	15.5	59.9
8	11	1989	16.5	61.7	17.5	63.5	15.5	59.9
8	12	1989	16.5	61.7	17.0	62.6	16.0	60.8

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
8	13	1989	16.5	61.7	17.0	62.6	16.0	60.8
8	14	1989	16.5	61.7	17.5	63.5	16.0	60.8
8	15	1989	17.0	62.6	17.5	63.5	16.5	61.7
8	16	1989	17.0	62.6	17.5	63.5	16.5	61.7
8	17	1989	16.5	61.7	17.5	63.5	16.0	60.8
8	18	1989	16.5	61.7	17.5	63.5	16.5	61.7
8	19	1989	16.5	61.7	17.5	63.5	16.5	61.7
8	20	1989	17.0	62.6	17.5	63.5	16.5	61.7
8	21	1989	17.0	62.6	17.5	63.5	16.5	61.7
8	22	1989	17.0	62.6	17.5	63.5	16.5	61.7
8	23	1989	16.5	61.7	17.5	63.5	16.0	60.8
8	24	1989	16.0	60.8	17.5	63.5	15.5	59.9
8	25	1989	16.5	61.7	17.5	63.5	16.0	60.8
8	26	1989	16.5	61.7	18.0	64.4	16.5	61.7
8	27	1989	17.0	62.6	18.0	64.4	16.5	61.7
8	28	1989	17.0	62.6	18.5	65.3	16.5	61.7
8	29	1989	17.0	62.6	18.5	65.3	16.5	61.7
8	30	1989	17.0	62.6	18.5	65.3	16.5	61.7
8	31	1989	17.0	62.6	18.5	65.3	16.5	61.7
9	1	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	2	1989	17.0	62.6	18.5	65.3	16.5	61.7
9	3	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	4	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	5	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	6	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	7	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	8	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	9	1989	17.0	62.6	17.5	63.5	16.5	61.7
9	10	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	11	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	12	1989	17.0	62.6	18.0	64.4	17.0	62.6
9	13	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	14	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	15	1989	17.0	62.6	18.0	64.4	16.5	61.7
9	16	1989	16.5	61.7	17.0	62.6	16.0	60.8
9	17	1989	15.5	59.9	16.5	61.7	15.5	59.9
9	18	1989	15.0	59.0	16.0	60.8	14.5	58.1
9	19	1989	15.0	59.0	16.0	60.8	15.0	59.0
9	20	1989	16.5	61.7	17.5	63.5	16.0	60.8
9	22	1989	18.0	64.4	19.0	66.2	17.0	62.6
9	23	1989	18.0	64.4	18.5	65.3	17.5	63.5
9	24	1989	17.5	63.5	18.5	65.3	17.0	62.6
9	25	1989	18.0	64.4	18.5	65.3	17.5	63.5
9	26	1989	17.5	63.5	18.0	64.4	17.5	63.5
9	27	1989	17.5	63.5	18.5	65.3	17.0	62.6
9	28	1989	17.5	63.5	18.5	65.3	17.0	62.6

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
9	29	1989	17.5	63.5	18.0	64.4	17.0	62.6
9	30	1989	17.0	62.6	18.5	65.3	16.5	61.7
10	1	1989	17.0	62.6	18.5	65.3	16.5	61.7
10	2	1989	17.0	62.6	18.0	64.4	16.5	61.7
10	3	1989	16.5	61.7	17.5	63.5	16.0	60.8
10	4	1989	16.0	60.8	17.0	62.6	15.5	59.9
10	5	1989	16.0	60.8	17.0	62.6	15.0	59.0
10	6	1989	16.0	60.8	17.0	62.6	15.5	59.9
10	7	1989	16.0	60.8	17.5	63.5	15.5	59.9
10	8	1989	16.5	61.7	17.5	63.5	15.5	59.9
10	9	1989	16.5	61.7	18.0	64.4	16.0	60.8
10	10	1989	17.0	62.6	18.0	64.4	16.0	60.8
10	11	1989	17.0	62.6	18.0	64.4	16.5	61.7
10	12	1989	17.0	62.6	18.0	64.4	16.5	61.7
10	13	1989	16.5	61.7	17.5	63.5	16.5	61.7
10	14	1989	16.5	61.7	17.0	62.6	16.0	60.8
10	15	1989	16.0	60.8	17.0	62.6	16.0	60.8
10	16	1989	16.0	60.8	16.5	61.7	15.5	59.9
10	17	1989	15.5	59.9	16.5	61.7	15.0	59.0
10	18	1989	15.5	59.9	16.5	61.7	15.0	59.0
10	19	1989	15.5	59.9	16.5	61.7	15.0	59.0
10	20	1989	15.0	59.0	16.0	60.8	15.0	59.0
10	21	1989	14.5	58.1	15.0	59.0	14.5	58.1
10	22	1989	14.0	57.2	14.5	58.1	14.0	57.2
10	23	1989	14.0	57.2	14.5	58.1	14.0	57.2
10	24	1989	13.5	56.3	14.0	57.2	13.5	56.3
10	25	1989	13.0	55.4	14.0	57.2	12.5	54.5
10	26	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	27	1989	13.5	56.3	14.0	57.2	13.0	55.4
10	28	1989	13.0	55.4	13.5	56.3	12.5	54.5
10	29	1989	12.5	54.5	13.5	56.3	12.0	53.6
10	30	1989	12.5	54.5	14.0	57.2	12.0	53.6
10	31	1989	12.5	54.5	13.5	56.3	12.0	53.6
11	1	1989	13.0	55.4	14.0	57.2	12.5	54.5
11	2	1989	13.0	55.4	14.5	58.1	12.5	54.5
11	3	1989	13.5	56.3	14.0	57.2	13.0	55.4
11	4	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	5	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	6	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	7	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	8	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	9	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	10	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	11	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	12	1989	13.5	56.3	14.5	58.1	13.5	56.3
11	13	1989	13.5	56.3	14.5	58.1	13.0	55.4

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
11	14	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	15	1989	12.5	54.5	13.5	56.3	12.5	54.5
11	16	1989	12.5	54.5	13.5	56.3	12.5	54.5
11	17	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	18	1989	13.5	56.3	14.5	58.1	13.0	55.4
11	19	1989	13.5	56.3	14.0	57.2	13.5	56.3
11	20	1989	13.0	55.4	14.0	57.2	13.0	55.4
11	21	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	22	1989	13.0	55.4	13.5	56.3	12.5	54.5
11	23	1989	13.0	55.4	13.0	55.4	13.0	55.4
11	24	1989	13.0	55.4	13.5	56.3	13.0	55.4
11	25	1989	12.5	54.5	13.0	55.4	12.5	54.5
11	26	1989	12.0	53.6	12.5	54.5	12.0	53.6
11	27	1989	11.0	51.8	12.0	53.6	11.0	51.8
11	28	1989	11.0	51.8	12.0	53.6	11.0	51.8
11	29	1989	11.0	51.8	11.5	52.7	11.0	51.8
11	30	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	1	1989	11.5	52.7	12.5	54.5	11.0	51.8
12	2	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	3	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	4	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	5	1989	12.0	53.6	13.0	55.4	11.5	52.7
12	6	1989	12.0	53.6	12.5	54.5	12.0	53.6
12	7	1989	11.5	52.7	12.5	54.5	11.5	52.7
12	8	1989	11.0	51.8	11.5	52.7	11.0	51.8
12	9	1989	11.0	51.8	12.0	53.6	11.0	51.8
12	10	1989	10.5	50.9	11.0	51.8	10.0	50.0
12	11	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	12	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	13	1989	9.0	48.2	10.0	50.0	9.0	48.2
12	14	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	15	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	16	1989	9.5	49.1	10.5	50.9	9.0	48.2
12	17	1989	9.5	49.1	10.5	50.9	9.5	49.1
12	18	1989	9.0	48.2	10.0	50.0	9.0	48.2
12	19	1989	9.0	48.2	9.5	49.1	8.5	47.3
12	20	1989	8.5	47.3	9.5	49.1	8.5	47.3
12	21	1989	8.5	47.3	9.0	48.2	8.5	47.3
12	22	1989	8.5	47.3	9.0	48.2	8.5	47.3
12	23	1989	8.5	47.3	9.0	48.2	8.5	47.3
12	24	1989	8.5	47.3	9.5	49.1	8.5	47.3
12	25	1989	8.5	47.3	9.5	49.1	8.5	47.3
12	26	1989	8.5	47.3	9.5	49.1	8.5	47.3
12	27	1989	8.5	47.3	9.0	48.2	8.5	47.3
12	28	1989	8.5	47.3	9.5	49.1	8.5	47.3
12	29	1989	8.5	47.3	9.0	48.2	8.0	46.4

Table 18d. Daily Mean, Maximum, and Minimum Water Temperatures at Hamilton City, 1987-1989, (Continued)

Month	Day	Year	Mean		Maximum		Minimum	
			C	F	C	F	C	F
12	30	1989	8.5	47.3	10.0	50.0	8.0	46.4
12	31	1989	8.5	47.3	9.5	49.1	8.5	47.3

YEAR 1980

Table 19a. Daily Maximum and Minimum Water Temperatures above the mouth of Stony Creek, 1980-81^{1/2}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min
1					63	61	66	63	62	62	60	59
2	-	-	63	61	65	63	62	62	60	59	63	61
3	-	-	64	61	63	62	63	62	60	59	63	61
4	-	-	63	62	60	60	63	62	60	59	63	62
5	-	-	63	62	61	58	63	62	60	59	64	62
6	-	-	63	61	61	59	62	62	60	59	63	62
7	-	-	63	62	62	60	62	62	61	59	63	61
8	-	-	62	60	62	61	62	61	60	59	61	59
9	-	-	60	57	62	61	62	60	60	59	64	62
10	-	-	57	56	63	62	61	60	60	59	64	62
11	-	-	57	56	62	61	62	60	60	59	64	62
12	-	-	59	57	61	60	62	61	60	59	63	62
13	-	-	59	58	60	59	61	60	64	59	62	61
14	-	-	61	58	60	59	63	62	63	61	60	59
15	-	-	62	60	60	59	63	62	63	61	59	58
16	-	-	64	61	61	60	59	63	61	59	58	54
17	-	-	64	62	61	60	59	58	63	62	59	57
18	-	-	65	63	61	60	59	58	63	62	60	59
19	-	-	67	64	61	60	58	58	63	61	61	59
20	-	-	67	65	61	60	59	58	63	61	61	60
21	-	-	68	65	61	60	59	58	63	61	60	59
22	-	-	66	64	61	60	59	58	63	62	59	58
23	-	-	63	62	60	60	59	58	63	62	60	58
24	-	-	61	60	60	59	59	58	63	61	60	58
25	-	-	61	59	60	60	59	58	63	62	61	59
26	-	-	61	59	60	60	59	58	63	62	60	59
27	-	-	62	59	61	60	59	58	63	62	60	59
28	-	-	62	60	62	61	59	58	63	61	60	59
29	64	-	63	60	62	62	58	57	62	61	59	58
30	63	61	64	61	62	61	60	58	62	60	59	58
31					65	62			60	59	62	60
	MAX				68		66		63		64	
	MIN				56		58		57		57	
	-No Data.								59		53	
									57		47	
										54	53	
										54	53	50
											50	50

1/ Palmer thermograph, exact location unknown.

2/ From unpublished DWR, Northern District data.

YEAR 1981

Table 19a. Daily Maximum and Minimum Water Temperatures above the mouth of Stony Creek, 1980-81, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	50	49	47	46	52	50	53	51	63	62	63	61	62	61	62	61	65	63	62	60	57	55		
2	49	49	47	46	52	51	53	51	63	62	63	61	61	60	61	60	66	63	62	61	57	55		
3	49	49	48	47	52	52	54	51	62	61	63	62	62	60	61	60	66	63	62	60	57	56		
4	49	48	48	47	52	52	54	52	60	59	64	62	62	60	60	60	65	63	63	61	57	56		
5	50	49	48	48	50	49	56	54	59	58	65	63	62	60	60	59	65	63	62	60	57	56		
6	50	50	48	47	50	49	56	55	58	57	65	63	62	60	60	58	65	63	61	60	58	57		
7	49	49	48	48	52	50	56	55	58	57	63	60	62	60	59	58	66	63	62	60	58	57		
8	49	48	48	48	54	52	57	55	59	58	62	60	62	61	60	57	66	64	62	60	58	57		
9	48	48	50	48	54	53	58	56	61	59	62	60	63	61	60	59	66	64	61	60		57		
10	48	48	50	50	55	54	58	57	61	60	61	60	63	61	61	59	66	64	60	60				
11	48	48	51	50	56	54	58	57	60	59	60	59	63	61	60	59	66	64	59	58				
12	48	48	51	50	56	55	58	57	60	59	60	59	62	61	60	58	66	64	59	57				
13	49	48	51	51	56	55	58	57	60	59	59	58	62	61	61	59	66	64	58	57				
14	49	48	51	51	55	55	60	58	61	60	59	58	62	61	61	59	66	64	58	56				
15	49	48	51	51	54	54	61	59	60	59	60	59	62	60	61	60	66	64	58	56				
16	50	49	51	51	53	52	61	59	58	57	61	60	61	60	62	60	67	64	58	56				
17	50	49	51	51	52	51	62	60	56	56	61	60	61	60	62	60	67	65	59	57				
18	51	50	51	51	52	52	61	60	57	56	62	60	61	60	62	61	67	65	60	57				
19	51	51	52	51	52	52	58	58	56	55	64	62	61	60	61	60	67	65	60	58				
20	52	51	52	51	51	51	56	55	57	55	64	63	62	60	61	60	67	65	61	59				
21	51	51	51	50	51	51	58	56	58	57	63	61	62	60	61	60	64	63	61	59				
22	51	51	52	51	52	50	59	53	59	57	63	61	62	60	61	60	63	61	61	59				
23	51	51	52	51	54	52	61	60	60	58	62	61	62	60	61	60	63	61	61	59				
24	50	49	52	51	53	52	61	61	60	59	62	61	62	60	61	61	61	60	60	59				
25	49	49	51	51	53	52	59	59	60	59	62	61	62	60	61	59	62	60	59	58				
26	48	48	49	48	53	52	57	56	60	58	62	61	62	60	62	61	62	61	58	58				
27	47	47	50	49	53	51	57	56	59	57	63	61	62	61	62	61	62	60	57	56				
28	47	46	50	50	54	51	60	58	61	59	62	61	63	61	63	62	63	61	57	56				
29	47	47			54	52	61	60	61	60	62	60	62	61	64	62	62	61	55	55				
30	47	46			53	51	62	61	62	61	62	60	62	60	64	63	61	59	55	54				
31	46	46			53	51			62	61			62	60	64	62			56	54				
MAX	52		52		56		62		63		65		63		64		67		63					
MIN	46		46		49		51		55		58		60		57		59		54					

YEAR 1948

Table 20a. Periodic Afternoon and Morning Water Temperatures at Ord Ferry, 1948^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM	3PM	10AM
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	51	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58
3	-	-	-	46	52	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
5	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	44	50	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	45	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58
9	-	-	-	-	-	49	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	46	51	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62
11	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	50	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	44	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	61
16	-	-	-	-	-	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	49	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	48	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	51	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	48	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	51	-	52	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	45	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	47	-	-	-	-	-	-	-	-	-	59	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

-No Data.

1/ Hand held thermometer measurements taken at unknown location (river mile 184).

2/ From USFWS, 1949.

YEAR 1948

Table 20b. Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1948-51^{1/ 2/}

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
	max min											
1								-	61	-	55	55
2								-	61	60	58	-
3								-	61	60	-	50
4								-	61	61	58	56
5								-	61	60	57	57
6								-	60	59	56	53
7								-	60	59	55	53
8								-	60	60	52	51
9								-	60	60	-	-
10								-	60	60	-	-
11								-	60	60	-	-
12								-	60	59	-	-
13								-	59	59	-	50
14								-	59	59	-	48
15								-	60	59	-	48
16								-	-	-	-	47
17								-	61	59	57	-
18								-	61	58	59	58
19								-	62	58	59	58
20								-	64	59	58	58
21								-	64	60	58	58
22								-	63	60	58	58
23								-	63	59	58	58
24								-	-	58	58	58
25								-	60	58	58	57
26								-	57	57	58	57
27								-	58	57	58	56
28								-	59	58	56	54
29								-	60	59	54	54
30								-	60	60	54	53
31								-			53	53
MAX												46
MIN												45
-No Data.												

1/ Thermograph type and exact location unknown.

2/ From USFWS, 1949 and 1952.

YEAR 1949

Table 20b. Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1948-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	47	45	46	42	51	50	58	53	59	58	62	61	62	61	61	60	65	63	64	61	59	56	54	53
2	47	44	44	40	50	50	60	55	59	57	62	60	63	61	63	61	65	64	65	62	59	56	55	52
3	44	42	45	41	48	46	60	56	60	57	63	60	63	62	63	62	65	64	65	62	59	56	54	52
4	43	39	44	43	48	46	61	56	61	58	65	62	63	62	63	62	65	64	64	61	59	56	54	51
5	44	38	46	41	48	47	62	57	61	58	67	63	63	62	63	62	65	64	64	61	59	55	52	50
6	46	41	43	42	51	48	-	58	62	58	67	64	63	62	63	62	65	63	63	60	56	55	51	50
7	47	42	44	41	52	48	60	-	62	60	67	64	63	61	62	61	64	63	61	60	56	55	52	50
8	46	43	45	41	52	49	61	60	61	59	68	64	63	61	62	61	63	61	61	60	57	56	55	52
9	43	39	46	43	50	49	62	60	61	59	67	64	63	62	62	60	64	62	59	57	56	54	52	50
10	39	36	45	45	49	48	62	60	62	58	67	64	63	62	62	61	64	62	60	57	54	53	50	48
11	39	34	47	43	48	46	62	61	63	60	68	65	63	61	62	61	64	62	61	59	55	53	50	43
12	41	37	45	42	48	45	62	60	65	61	66	64	63	62	62	61	64	63	62	58	55	54	49	41
13	44	39	44	38	51	47	62	60	66	62	67	63	63	62	62	61	64	62	61	59	55	53	48	35
14	44	40	45	39	51	50	62	60	64	61	67	65	63	62	62	61	64	62	62	59	55	53	48	48
15	45	40	45	43	51	50	62	60	62	60	67	65	63	62	62	61	65	62	62	59	55	53	49	49
16	45	41	47	42	53	50	63	60	62	60	68	65	63	62	62	61	66	63	63	60	56	52	49	48
17	43	40	50	44	53	52	63	62	62	60	64	63	63	62	63	61	64	62	62	60	56	51	50	49
18	43	40	51	45	54	52	63	61	61	58	63	62	63	62	63	61	65	62	59	57	54	51	50	49
19	43	40	53	47	53	51	64	61	61	59	63	61	63	62	63	61	65	62	56	55	53	51	51	48
20	44	40	50	49	54	51	63	61	60	58	62	61	63	62	63	61	65	62	58	55	54	51	49	46
21	43	41	51	48	53	51	64	61	61	58	63	60	63	61	63	61	66	63	58	55	53	51	48	38
22	45	41	52	49	53	52	65	61	62	59	62	61	63	61	63	61	66	63	59	56	53	50	48	41
23	44	40	52	49	52	51	63	62	64	59	64	61	63	61	63	61	66	63	59	56	53	49	48	46
24	43	40	52	50	53	49	64	60	64	61	64	62	63	62	63	61	66	63	60	57	54	52	49	46
25	43	40	52	48	55	51	63	60	69	65	64	63	63	62	63	62	65	63	59	57	55	52	49	46
26	42	36	53	50	57	53	63	60	69	65	64	63	63	62	63	62	64	62	57	55	54	52	49	46
27	45	38	54	49	58	54	62	60	68	65	63	62	63	62	63	62	64	62	57	54	53	52	48	45
28	46	40	53	51	56	53	61	58	68	64	63	62	63	62	62	61	63	61	57	55	54	52	48	46
29	46	41			57	52	60	58	66	64	63	62	63	62	63	61	63	60	57	55	54	52	48	42
30	46	41			56	53	60	58	63	61	63	62	63	61	64	63	64	61	59	56	54	52	48	46
31	47	42			57	52			62	61			62	61	64	63			59	56			49	46
MAX	47		54		58				69		68		63		64		66		65		59		55	
MIN	34		38		45				57		60		61		60		60		54		49		35	

-No Data.

YEAR 1950

Table 20b. Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1948-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	48	44	44	37	53	51	58	55	57	55	65	62	66	64	64	62	64	61	61	58	57	56	56	53
2	47	46	45	37	54	52	58	56	56	54	64	62	66	63	63	62	64	61	60	58	57	56	55	52
3	46	36	45	41	54	51	56	56	55	53	64	62	66	64	62	61	63	61	60	57	59	57	52	49
4	46	36	44	40	54	52	56	54	54	52	63	61	66	64	63	62	64	61	60	58	60	59	48	47
5	46	33	43	40	56	52	56	55	56	53	63	61	65	63	62	60	63	61	60	59	60	59	51	48
6	46	33	44	-	55	52	56	54	55	53	61	60	64	63	61	60	63	62	61	59	60	59	52	51
7	45	33	-	-	52	49	55	51	56	53	59	58	64	62	61	60	61	59	61	59	60	59	53	52
8	45	43	-	43	51	49	51	50	58	54	58	56	64	62	62	60	60	59	61	60	60	59	53	53
9	45	44	47	45	52	50	51	49	59	55	57	56	64	62	62	61	62	59	62	60	59	58	56	53
10	44	43	46	45	52	50	54	50	61	56	58	56	65	63	62	60	63	61	62	60	58	56	56	54
11	45	45	47	45	52	50	55	53	62	58	58	57	65	63	62	60	62	61	63	60	58	55	59	54
12	45	43	47	45	52	48	55	54	63	59	57	55	64	63	63	60	63	61	63	61	56	55	55	53
13	45	44	47	46	51	47	56	53	63	60	58	56	64	62	63	61	64	62	63	61	56	55	55	54
14	44	42	47	46	51	47	56	54	62	60	60	57	64	62	63	61	64	62	62	60	56	54	54	53
15	43	39	49	47	53	49	57	53	62	60	60	58	63	62	63	61	63	62	61	60	55	53	54	53
16	42	40	50	49	53	51	58	55	62	60	60	58	64	62	63	62	63	62	60	60	54	53	55	53
17	41	39	51	49	53	50	59	55	62	60	60	57	64	63	63	62	63	61	60	59	54	53	55	53
18	41	39	51	49	53	51	60	56	60	59	60	58	64	63	63	61	62	60	61	60	55	54	54	53
19	41	40	50	49	53	50	61	58	59	57	65	58	64	62	63	61	61	60	61	60	-	-	55	54
20	42	41	50	49	53	48	63	59	61	57	67	63	63	62	63	61	63	60	61	60	56	-	55	53
21	45	43	50	48	51	49	63	60	62	59	68	65	62	61	-	-	64	61	60	58	56	54	55	54
22	47	45	52	49	54	50	63	61	63	60	67	65	62	61	-	-	64	62	60	59	56	53	55	54
23	47	45	52	49	53	49	62	60	62	60	66	64	62	61	-	-	64	62	59	59	55	53	54	53
24	48	44	52	49	50	48	60	56	62	60	64	62	62	61	-	-	63	62	59	59	56	53	54	53
25	45	38	53	50	49	46	61	57	62	60	62	61	63	61	-	-	63	61	59	58	55	53	53	53
26	44	36	53	51	49	48	61	58	62	60	63	61	64	62	-	-	63	61	59	59	-	54	53	51
27	44	43	53	51	52	47	62	59	63	60	63	61	64	62	-	-	63	61	55	54	54	53	53	51
28	44	43	53	51	51	50	60	57	61	59	64	61	63	62	64	62	64	60	56	55	55	53	53	52
29	44	42	-	-	52	50	59	55	62	58	65	62	63	62	64	62	61	59	56	55	55	53	54	51
30	43	39	-	-	54	51	58	56	64	60	66	63	63	60	64	62	61	58	57	56	54	53	52	51
31	44	40	-	-	55	53	-	-	64	62	-	-	64	62	63	62	-	-	59	56	-	53	50	-
MAX	48				56		63		64		68		66				64		63				59	
MIN	33				46		49		52		55		60				58		54				47	

-No Data.

YEAR 1951

Table 20b. Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1948-51, (Continued)

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	53	49	48	39	51	49	56	54	57	55	63	60	64	63	60	58	61	60	60	59	59	56	53	52
2	52	50	49	48	50	49	62	54	57	55	63	60	65	63	61	59	61	60	60	58	58	56	52	50
3	51	50	49	48	50	45	57	56	56	55	64	60	64	63	61	58	62	59	61	59	58	56	50	48
4	53	51	51	48	49	48	58	56	55	55	64	61	63	62	61	58	61	59	61	58	58	56	48	47
5	53	52	53	49	49	48	59	57	55	54	64	62	62	60	61	58	61	60	61	59	57	56	48	46
6	54	51	52	49	49	48	60	58	57	55	63	62	61	60	60	57	62	60	61	59	55	54	47	46
7	53	50	52	50	50	48	60	59	58	55	63	62	61	60	60	57	62	60	62	59	55	54	47	46
8	52	50	53	50	51	50	62	59	60	57	63	61	61	60	60	57	62	61	63	60	55	53	46	45
9	52	51	53	50	53	51	62	60	62	59	63	61	62	61	61	58	63	60	62	60	55	53	45	44
10	52	50	53	51	52	49	64	61	64	61	63	61	63	61	61	59	63	61	62	62	59	55	53	44
11	50	48	52	51	52	49	64	61	63	62	65	61	63	62	62	59	62	60	62	60	55	53	48	46
12	52	49	53	49	52	47	64	62	63	60	64	62	63	61	61	59	63	60	62	59	55	53	49	47
13	52	48	53	50	53	52	63	62	61	58	65	62	62	59	61	58	61	60	61	58	54	53	49	47
14	51	48	52	50	55	53	64	62	60	53	65	63	62	59	61	58	63	60	62	59	54	53	48	47
15	52	49	53	50	56	54	63	62	63	59	66	64	61	58	61	58	64	60	61	60	54	53	47	46
16	50	49	53	50	56	54	63	62	63	59	66	64	61	58	61	58	64	60	61	60	54	53	47	46
17	50	48	52	50	54	54	62	61	65	61	66	64	61	58	61	58	64	61	61	60	54	51	47	46
18	51	48	52	49	54	52	62	60	68	64	66	64	61	58	61	58	64	62	59	57	52	50	46	46
19	51	48	51	50	55	53	61	60	67	65	66	64	61	59	60	59	66	63	60	57	52	51	47	46
20	49	48	52	50	56	54	61	60	67	65	65	64	61	59	61	59	66	64	60	57	52	51	47	45
21	48	46	52	50	57	55	62	60	67	64	65	63	61	58	62	60	67	65	58	56	51	50	46	44
22	46	46	52	50	58	55	62	60	67	64	64	62	60	58	61	60	66	64	61	60	58	53	51	47
23	50	46	52	49	55	54	62	60	66	63	64	62	61	58	61	59	66	64	57	56	51	49	46	45
24	50	49	52	48	57	54	59	56	66	63	65	64	61	59	61	59	64	62	56	55	51	49	48	46
25	51	50	51	49	57	55	59	56	66	63	66	63	61	58	61	59	64	62	56	55	51	49	48	47
26	51	50	52	48	55	54	59	57	67	64	65	63	61	58	61	59	64	62	56	54	50	49	48	47
27	51	51	51	50	55	54	59	56	68	65	65	63	60	57	62	60	64	62	56	54	51	50	48	47
28	51	50	51	49	55	57	58	56	67	64	65	63	61	58	61	59	64	62	58	54	51	50	49	48
29	52	50			56	55	58	55	66	64	65	63	60	57	61	60	63	61	59	56	51	50	-	-
30	50	44			55	53	58	55	64	63	64	63	60	57	61	60	63	62	59	56	52	51	-	-
31	47	41			54	53			63	60			60	57	61	60			58	56			-	-
MAX	54		53		58		64		68		66		65		62		67		63		59			
MIN	41		39		45		54		53		60		57		57		59		54		49			
-No Data.																								

YEAR 1952-53

Table 20c. Monthly Maximum and Minimum Water Temperatures at Ord Ferry, 1952-53^{1/} ^{2/}

YEAR	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
1952	44.5	43.4	47.9	46.5	49.4	47.5	54.1	52.2	58.1	56.1	61.1	58.5	65	61.6	63.2	58.1	64	60.5	61	58.1	52.5	50.8	47.9	47.1
1953	-	-	-	-	53.9	51.5	59	56.1	59.9	57.2	61.4	58.8												

-No Data.

1/ Type of thermograph and exact location unknown.

2/ From unpublished USFWS data.

YEAR 1980

Table 20d. Daily Maximum and Minimum Water Temperatures at Ord Ferry, 1980^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1							64	59	67	64	66	63	66	62	65	63	-	-	54	53	50	49		
2							64	60	67	64	64	62	66	62	65	63	-	-	54	51	50	49		
3							65	60	65	62	66	62	65	62	65	63	-	-	55	53	49	49		
4							65	61	61	60	66	63	65	62	65	63	-	-	56	53				
5							64	61	62	58	66	63	65	62	65	63	-	-	56	54				
6							65	60	63	59	66	62	65	62	65	63	-	-	56	53				
7							65	61	64	60	66	62	65	62	64	63	-	-	56	55				
8							63	61	65	61	65	62	65	62	65	63	-	-	56	54				
9							59	56	65	61	64	60	65	62	65	64	-	-	55	53				
10							58	55	58	55	66	62	64	60	65	62	65	64	-	-	53	52		
11							59	55	57	54	64	61	65	61	65	62	65	63	-	-	54	52		
12							61	56	59	55	63	60	66	62	65	62	65	64	-	-	52	50		
13							61	57	60	57	62	59	66	62	67	62	64	63	-	-	51	49		
14							61	57	62	57	62	59	67	63	66	62	63	62	-	-	51	48		
15							61	57	64	59	62	60	67	64	66	62	63	62	-	-	50	49		
16							63	58	-	60	63	61	65	64	66	63	63	61	-	-	50	48		
17							63	59	-	61	64	61	64	62	66	63	63	62	57	-	51	49		
18							63	59	-	-	64	62	64	62	65	63	64	62	57	54	51	49		
19							65	60	-	-	63	62	64	61	65	63	64	62	58	55	51	49		
20							62	60	-	-	63	62	64	61	65	63	64	63	58	55	51	49		
21							59	57	-	-	63	62	64	62	65	63	64	63	58	56	50	49		
22							57	55	-	-	63	62	65	62	65	63	63	62	58	56	51	49		
23							57	54	63	-	63	60	65	62	65	63	63	62	59	56	52	51		
24							60	56	62	60	62	61	65	62	65	61	64	62	59	56	52	50		
25							62	57	62	59	63	61	65	62	65	63	64	62	57	56	50	49		
26							64	59	63	58	64	62	65	62	65	63	64	63	58	55	50	48		
27							65	61	64	59	64	62	65	62	65	63	64	62	57	55	50	48		
28							65	62	64	60	65	62	64	62	65	63	64	62	57	55	50	48		
29							65	61	65	60	66	63	64	61	64	63	-	-	56	53	50	49		
30							64	61	66	62	66	62	65	61	64	62	-	-	55	53	51	49		
31							67	62			65	63	64	62	-	-	55	52						
MAX											67		67		67				56					
MIN											58		60		62				48					
-No Data.																								

1/ Type of thermograph and exact location unknown.

2/ From unpublished DWR, Northern District data.

YEAR 1989

Table 21a. Daily Maximum and Minimum Water Temperatures at Butte City, 1989^{1/ 2/}

DAY	JAN.		FEB.		MAR.		APR.		MAY		JUN.		JUL.		AUG.		SEP.		OCT.		NOV.		DEC.			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min		
1															63	62	65	64	64	62	56	54	52	51		
2															63	62	65	63	64	62	56	54	53	52		
3															63	61	65	63	63	61	56	56	53	52		
4															63	62	65	63	62	61	56	56	53	52		
5															64	62	65	63	62	60	57	56	53	52		
6															64	62	65	64	62	60	57	56	53	52		
7															63	63	65	63	62	60	56	55	53	52		
8															63	63	65	63	63	60	56	55	53	52		
9															64	63	65	63	63	61	56	55	52	51		
10															65	63	65	63	63	61	56	55	51	50		
11															65	63	65	63	64	62	56	56	50	49		
12															65	63	65	63	63	62	56	56	50	49		
13															65	62	65	63	63	62	56	56	49	48		
14															66	63	64	63	63	61	56	55	49	48		
15															66	63	65	63	62	61	55	55	50	49		
16															66	63	65	62	62	60	55	54	50	49		
17															66	64	66	63	62	60	55	54	50	49		
18															66	63	67	64	60	59	61	60	56	55		
19															66	63	67	65	61	58	61	60	56	49		
20															66	63	67	64	63	60	60	56	55	49		
21															66	63	66	64	65	63	60	56	55	48		
22															65	63	66	64	65	63	58	56	54	48		
23															64	62	65	62	65	63	58	57	55	48		
24															64	62	64	62	64	63	57	57	55	48		
25															64	62	65	62	65	63	57	55	54	48		
26															63	62	65	62	64	63	56	55	54	48		
27															63	62	65	63	65	63	56	55	52	48		
28															63	62	65	63	65	63	56	55	52	48		
29															63	62	65	63	64	63	56	54	52	46		
30															63	62	65	64	64	62	55	54	52	49		
31															63	62	66	64	64	62	56	55	51	47		
MAX																	67		65		64		57		53	
MIN																	61		58		54		51		46	

1/ Palmer thermograph located on east bank at Butte City bridge.

2/ From unpublished DWR, Northern District data.

**Table 22. Sacramento River Water Temperature Data from Keswick to Butte City
Available in "USGS Water Resources Data for California" Reports**

- o Daily Maximum and Minimum Water Temperatures at Keswick (October 1980-September 1983).
- o Daily Water Temperature Measurements at Bend Bridge (May 1955-June 1963 and October 1966-September 1969).
- o Daily Maximum and Minimum Water Temperatures at Bend Bridge (March 1969-June 1980).
- o Daily Maximum and Minimum Water Temperatures near Red Bluff (November 1960-September 1968).
- o Daily Water Temperature Measurements at Red Bluff (October 1957-September 1968).
- o Daily Water Temperature Measurements at Butte City (February 1955-September 1961).
- o Daily Maximum and Minimum Water Temperatures at Butte City (November 1961-July 1981).